

Life Science Product Catalog

www.MedChemExpress.com

Magnetic Beads - Inhibitor Cocktails - Cell Counting Kit-8 - SYBR Green qPCR Master Mix
Inhibitory Antibodies - Peptides - Dye Reagents - Biochemical Assay Reagents - Cytokines

About Us

MedChemExpress (MCE) offers a wide range of high quality bioactive chemicals including novel life-science reagents, reference compounds, APIs and natural compounds for basic and translational preclinical research. We offer only the highest-grade products!

MCE has a dedicated customer service and technical support team with years of experience in the life science industry. Our goal is to help you achieve scientific and career success with our products and service.

MCE will be a trustworthy partner for you!

Quality

Our robust quality control assures product quality and high purity

Experience

We track the latest scientific innovations and give you access to the newest products

Validation

Biological activities are validated by customers worldwide and studies published in high profile scientific journals

Collaboration

Working together with renowned research institutes and pharmaceutical companies

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Magnetic Beads

- Protein A/G Magnetic Beads
- Anti-HA Magnetic Beads
- Magnetic Stand



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Protein A/G Magnetic Beads

Cat. No.: HY-K0202

MCE Protein A/G Magnetic Beads enable a fast and convenient method for Immunoprecipitation (IP), Co-Immunoprecipitation (Co-IP) and Chromatin Immunoprecipitation (ChIP).

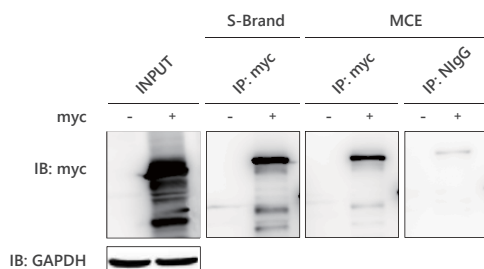
I Advantages:

- Convenient and time-saving
- Low non-specific binding
- Minimal sample loss
- Antibody binding capacity up to 0.5-0.8 mg/mL
- Stable, long shelf life

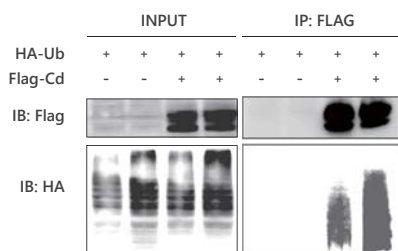
Characteristics:

Composition:	Recombinant Protein A/G monolayer covalently coupled to a blocked magnetic bead surface
Magnetization:	Superparamagnetic
Mean Diameter:	2 μm
Bead Concentration:	10 mg/mL
Binding Capacity:	0.5 mg/mL

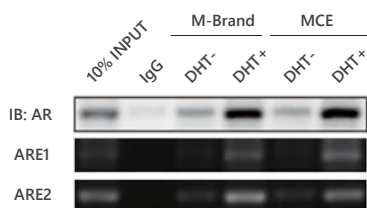
Customer Validation:



- ▶ Immunoprecipitation of myc-tagged protein from HEK 293T



- ▶ Co-Immunoprecipitation of Flag-tagged protein and HA-tagged protein from HEK 293T



- ▶ ChIP of AR from WPMY-1-AR nuclear extracts

Anti-HA Magnetic Beads

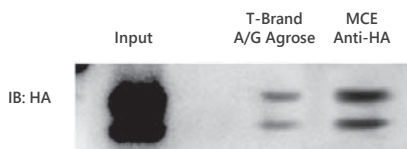
Cat. No.: HY-K0201

MCE Anti-HA Magnetic Beads are used for immunoprecipitation (IP) of specific HA-tagged proteins expressed in bacterial and mammalian cells, and *in vitro* expression systems.

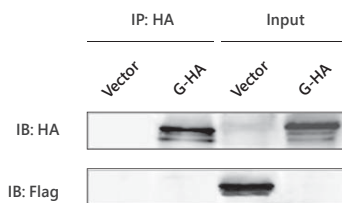
Advantages:

- Convenient and time saving
- Low non-specific binding
- Minimal sample loss
- Protein binding capacity up to 0.6 mg/mL
- Stable, long shelf life

Customer Validation:



- ▶ Cell line: HA tag-fusion protein (50 kD) overexpressed HEK293T



- ▶ Cell line: HA tag-fusion protein (130 kD) overexpressed HEK293T

Characteristics:

Composition :	Mouse IgG3a monoclonal antibody covalently coupled to a blocked magnetic bead surface
Antibody Purification :	Purify antibodies using the Protein A ligand
Bead Diameter :	2 μm
Binding Capacity :	>0.6 mg protein/mL of beads
Application :	IP, Protein Purification
Recommended Dose :	10 μL for per 500 μL cell lysates

Magnetic Stand

Cat. No.: HY-K0200

The MCE Magnetic Stand is optimized for efficient magnetic separation of all types of MCE Magnetic Beads with sample volumes ranging from 10 μL to 15 mL.

Advantages:

- Versatility suitable for 200 μL PCR tube, 1.5 mL EP tube, 2 mL EP tube and 15 mL centrifuge tube
- Strong magnetic core
- Easy to handle and observe samples

Inhibitor Cocktails

- Protease Inhibitor Cocktail
Solution (EDTA-Free, 100× in DMSO)
mini-Tablet (EDTA-Free)
- Phosphatase Inhibitor Cocktail
I: Solution (100× in DMSO)
II: Solution (100× in ddH₂O)
III: Solution (100× in DMSO)
- Deacetylase Inhibitor Cocktail
Solution (100× in 70% DMSO)

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Protease Inhibitor Cocktail (EDTA-Free, 100× in DMSO)

Cat. No.: HY-K0010

Protease inhibitor cocktail increases protein stability in mammalian cell lysates or tissue extracts.

Applications:

Western Blot, Co-IP, pull-down, IF, IHC, kinase assay and others.

Pre-dissolved in DMSO	Price
1 mL	USD 35
1 mL × 10	USD 250
1 mL × 50	USD 1000
1 mL × 100	USD 1500

Customer Validation:

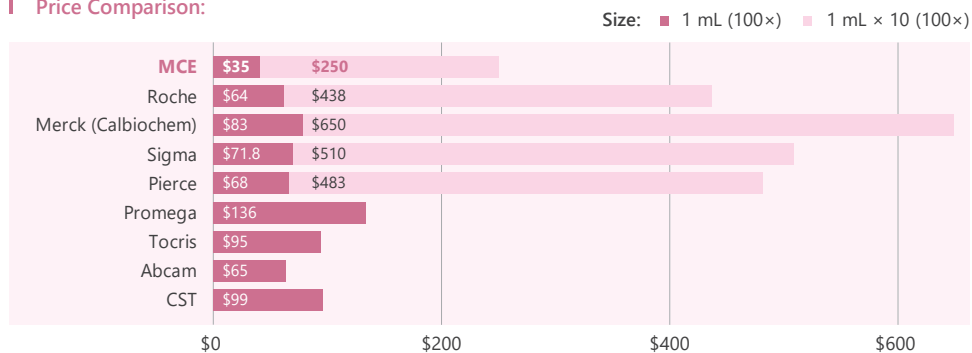


Bcl-2 proteins from thyroid cancer cell line 8505C lysates are incubated with Protease Inhibitor Cocktail for 6h and 12h at room temperature, respectively. According to the western blot results, MCE Protease Inhibitor Cocktail performs the best among the three brands.

Components:

Ingredient	Target	100× Conc.
AEBSF	Serine proteases	104 mM
Aprotinin	Serine proteases	80 μM
Bestatin	Aminopeptidases	5 mM
E-64	Cysteine proteases	1.5 mM
Leupeptin	Serine and cysteine proteases	2 mM
Pepstatin A	Aspartic proteases	1.5 mM

Price Comparison:



Protease Inhibitor Cocktail, mini-Tablet (EDTA-Free)

Cat. No.: HY-K0011

Protease inhibitor cocktail increases protein stability in mammalian cell lysates or tissue extracts.

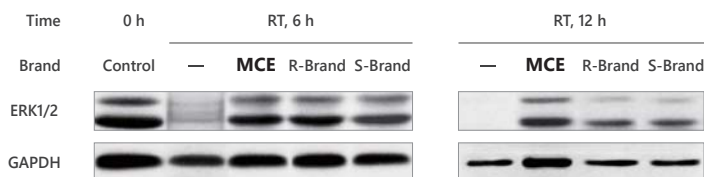
One mini-Tablet can be directly added to 10 mL cell/tissue lysis buffer.

Applications:

Western Blot, Co-IP, pull-down, IF, IHC, kinase assay and others.

mini-Tablet	Price
25 pcs	USD 120
50 pcs	USD 200

Customer Validation:



ERK1/2 proteins from K1 cell line lysates are incubated with Protease Inhibitor Cocktail (mini-Tablet) for 6h and 12h at room temperature, respectively. According to the western blot results, MCE Protease Inhibitor Cocktail performs the best among the three brands.

Components:

Ingredient	Target	Inhibitor Type
AEBSF	Serine proteases	Irreversible
Aprotinin	Serine proteases	Reversible
Bestatin	Aminopeptidases	Reversible
E-64	Cysteine proteases	Irreversible
Leupeptin	Serine and cysteine proteases	Reversible

Phosphatase Inhibitor Cocktail I (100× in DMSO)

Cat. No.: HY-K0021

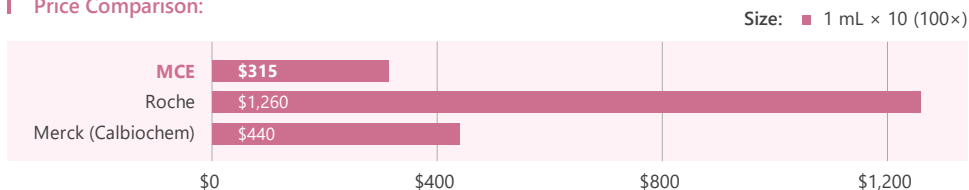
Phosphatase Inhibitor Cocktail I effectively inhibits alkaline phosphatases and serine/ threonine protein phosphatases, such as PP1 and PP2A.

Applications:

Western Blot, Co-IP, pull-down, IF, IHC, kinase assay and others.

Pre-dissolved in DMSO	Price
1 mL	USD 45
1 mL × 10	USD 315
1 mL × 50	USD 1330
1 mL × 100	USD 1990

Price Comparison:



Components:

Ingredient	Target	100× Conc.
(-)-p-Bromotetramisole oxalate	Alkaline phosphatases	2.5 mM
Cantharidin	Ser/Thr phosphatases	500 μM
Microcystin LR, <i>Microcystis aeruginosa</i>	PP1 and PP2A	500 nM

Phosphatase Inhibitor Cocktail II (100× in ddH₂O)

Cat. No.: HY-K0022

Phosphatase Inhibitor Cocktail II effectively inhibits acid and alkaline phosphatases as well as protein tyrosine phosphatases (PTPs).

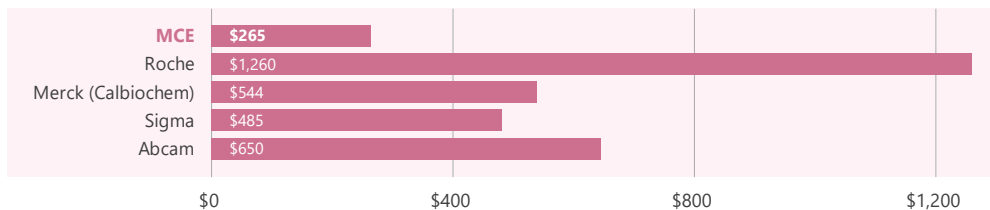
Applications:

Western Blot, Co-IP, pull-down, IF, IHC, kinase assay and others.

Pre-dissolved in ddH ₂ O	Price
1 mL	USD 38
1 mL × 10	USD 265
1 mL × 50	USD 1106
1 mL × 100	USD 1660

Price Comparison:

Size: ■ 1 mL × 10 (100×)



Components:

Ingredient	Target	100× Conc.
Sodium Fluoride	Acid phosphatases	100 mM
Sodium Orthovanadate	Alkaline phosphatases, PTPs, ATPases	100 mM
Sodium Tartrate Dihydrate	Acid phosphatases	400 mM
Sodium Molybdate	Acid and phosphoprotein phosphatases	115 mM
Imidazole	Alkaline phosphatases	200 mM

Phosphatase Inhibitor Cocktail III (100× in DMSO)

Cat. No.: HY-K0023

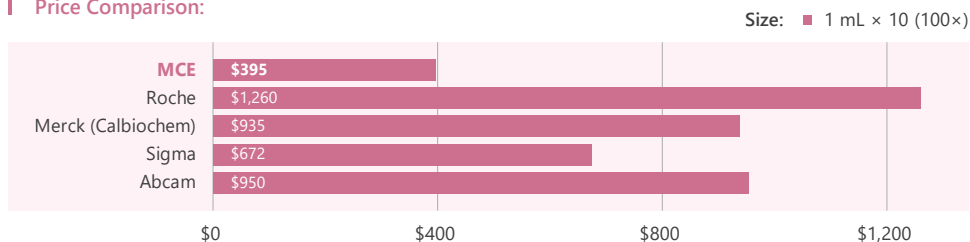
Phosphatase Inhibitor Cocktail III effectively inhibits serine/threonine and alkaline phosphatases.

Applications:

Western Blot, Co-IP, pull-down, IF, IHC, kinase assay and others.

Pre-dissolved in DMSO	Price
1 mL	USD 55
1 mL × 10	USD 395
1 mL × 50	USD 1840
1 mL × 100	USD 2765

Price Comparison:



Components:

Ingredient	Target	100× Conc.
(-)-p-Bromolevamisole oxalate	Alkaline phosphatases	2.5 mM
Cantharidin	Protein phosphatase 2A (PP2A)	500 μM
Calyculin A	Protein phosphatases 1 and 2A (PP1 and PP2A)	1 μM

Deacetylase Inhibitor Cocktail (100× in 70% DMSO)

Cat. No.: HY-K0030

Deacetylase Inhibitor Cocktail is a combination of chemicals designed to preserve the acetylation state of proteins.

Applications:

Western Blot, Flow Cytometry, IF and others.

Pre-dissolved in DMSO	Price
1 mL	USD 45
1 mL × 10	USD 200
1 mL × 50	USD 800
1 mL × 100	USD 1280

Cell Counting Kit-8

Cat. No.: HY-K0301

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Cell Counting Kit-8 (CCK-8) is a convenient, nonradioactive and one-step ready-to-use assay kit for determining the number of viable cells in cell proliferation and cytotoxicity assays.

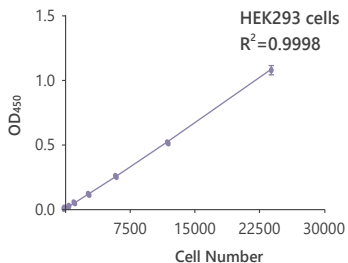
MCE's CCK-8 Kit shows **superb linearity**, **excellent stabilization** and has been **experimentally validated in the literature**.

I Applications:

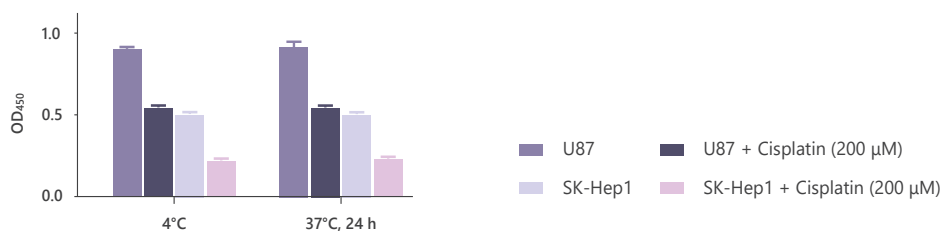
- Drug Screening Assays
- Cell Proliferation and Viability Assays
- Cell Cytotoxicity Assays
- Anti-tumor Drug Sensitivity Assays

I Superb Linearity:

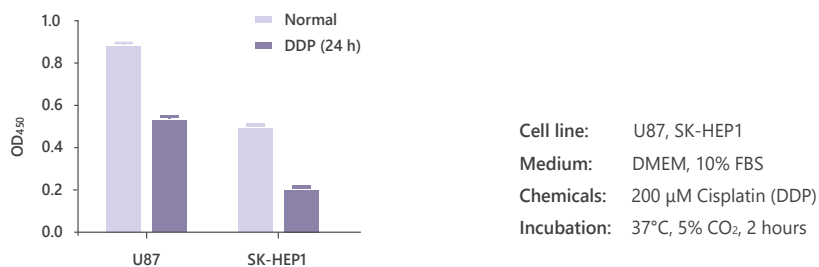
$R^2=0.9998$
Cell Line: HEK293
Medium: DMEM, 10% FBS
Incubation: 37°C, 5% CO₂, 2 hours



Excellent Stabilization:



Customer Validation:



Advantages:

Assays	CCK-8	XTT	WST-1	MTT
Solubility	+	+	+	-
Property	1-Bottle Solution	2-Bottle Solution	1-Bottle Solution	Powder
Preparation	Ready to Use	Mix to Use	Ready to Use	Dissolve to Use
Sensitivity	++	++	++	+
Incubation Time	+++	++	++	+
Wavelength	430-490 nm	420-480 nm	420-480 nm	560-600 nm
Toxicity	-	-	-	+
Reagent Stability	++	-	+	+
HTS Adaption	++	++	++	+
Convenience	+++	++	++	+

SYBR Green qPCR Master Mix

Cat. No.: HY-K0501

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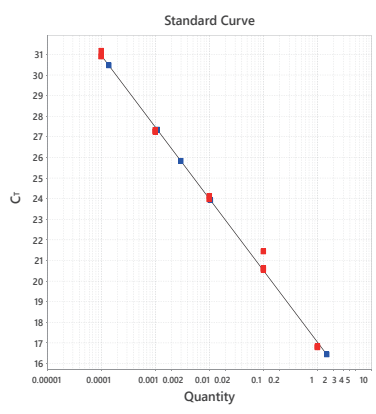
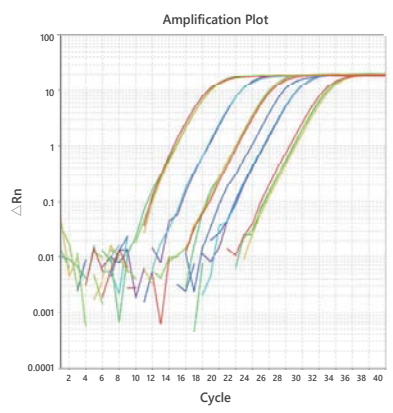
The Super Hot-Start SYBR Green qPCR Master Mix is a ready-to-use qPCR cocktail. It contains a novel Taq DNA polymerase, unique hot start reagents, optimized buffer, SYBR Green I, dNTPs, PCR enhancer and PCR stabilizer.

qPCR Master Mix is provided at 2× concentration and can be used at 1× concentration by adding template, primers, passive reference dye (optional) and ddH₂O.

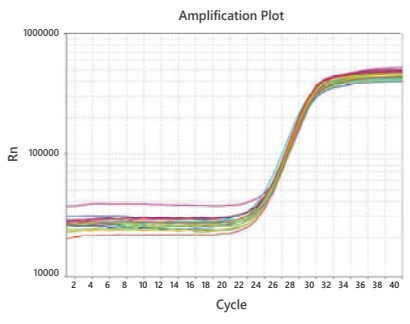
Advantages:

- Ready to use
- Optimized buffer
- High sensitivity
- High specificity
- High reliability
- Passive reference dyes are provided for different qPCR instruments

High Amplification Efficiency:



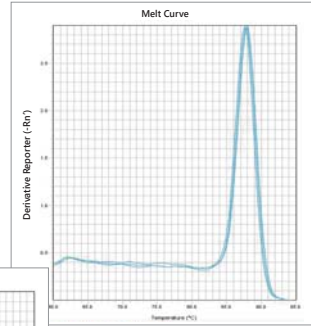
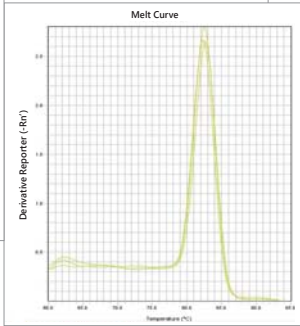
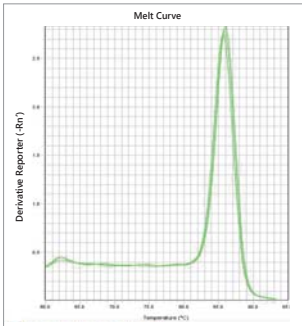
High Sensitivity:



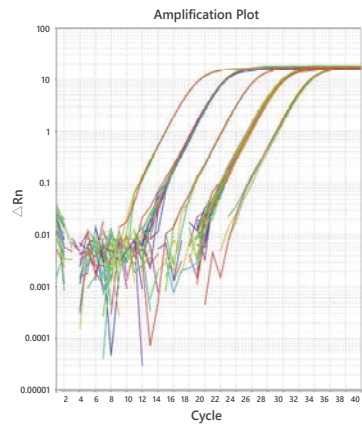
Template conc. 5 pg/μL



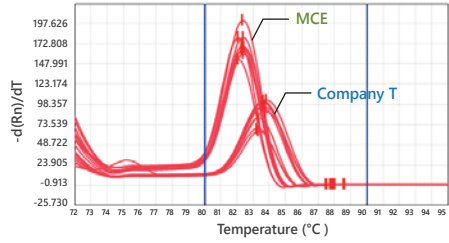
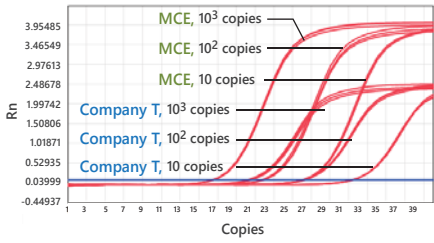
High specificity for low-expression gene:



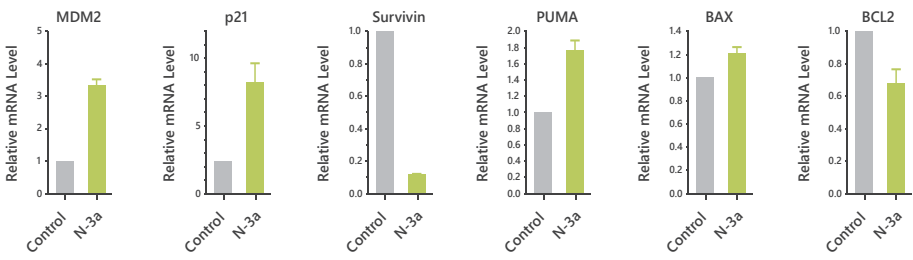
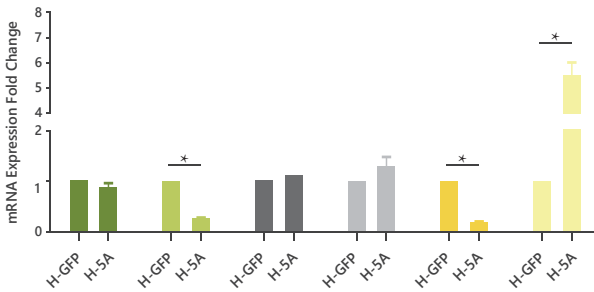
High Reliability (Passed Rigorous Stability Test):



Brand Comparison:



Customer Validation:



Inhibitory Antibodies

MCE Inhibitory Antibodies are monoclonal antibodies (mAbs) that have been extensively used in the hottest research areas, such as cancer, immunology and infection.

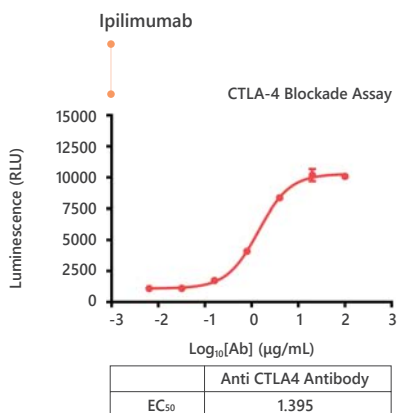
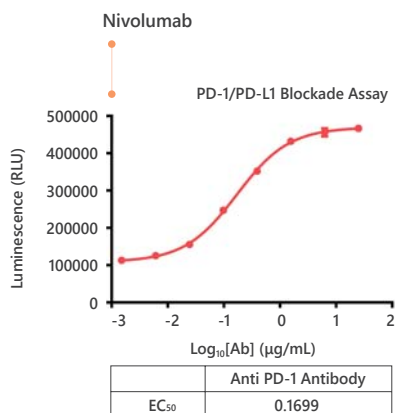
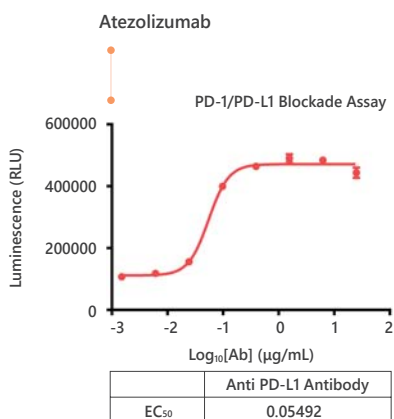
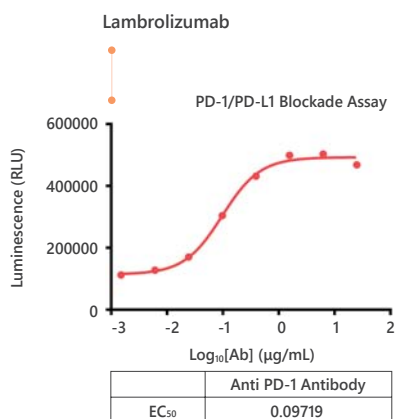
These monoclonal antibodies (mAbs) bind monospecifically to targeted cells or proteins, either stimulating the immune system to attack the malignant tumor cells or preventing tumor growth by blocking specific cell receptors. Targets include PD-1, PD-L1, EGFR, VEGFR, TNF-alpha etc. Those mAbs have been used or tested in clinical practice to treat diseases such as non-Hodgkin lymphoma, Hemophilia A, renal cell carcinoma, Parkinson's disease and metastatic HER2-positive breast cancer.

Cat. No.	Product Name	Target	Research Area
HY-P9905	Cetuximab	EGFR	Cancer
HY-P9906	Bevacizumab	VEGF-A	Cancer
HY-P9907	Trastuzumab	HER2	Cancer
HY-108730	Avelumab	PD-L1	Cancer & Immunology
HY-P9903	Nivolumab	PD-1	Cancer
HY-P9904	Atezolizumab	PD-L1	Cancer
HY-P9901	Ipilimumab	CTLA-4	Cancer
HY-P9913	Rituximab	CD20	Cancer & Immunology
HY-P9902	Lambrolizumab	PD-1	Cancer & Immunology
HY-P9912	Pertuzumab	HER2	Cancer
HY-P9908	Adalimumab	TNF- α	Immunology/Inflammation
HY-P9910	Obinutuzumab	CD20	Cancer
HY-P9911	Vedolizumab	$\alpha 4\beta 7$ integrin	Immunology
HY-P9909	Ustekinumab	IL-12/IL-23	Immunology/Inflammation

Advantages:

- Covering a broad range of targets in the hottest research areas
- High purity: $\geq 98\%$
- Low endotoxin: < 1 EU/mg
- Biological activity confirmed by cell assays

Blockade Bioassay Validation:





Peptides

Custom Peptide Synthesis



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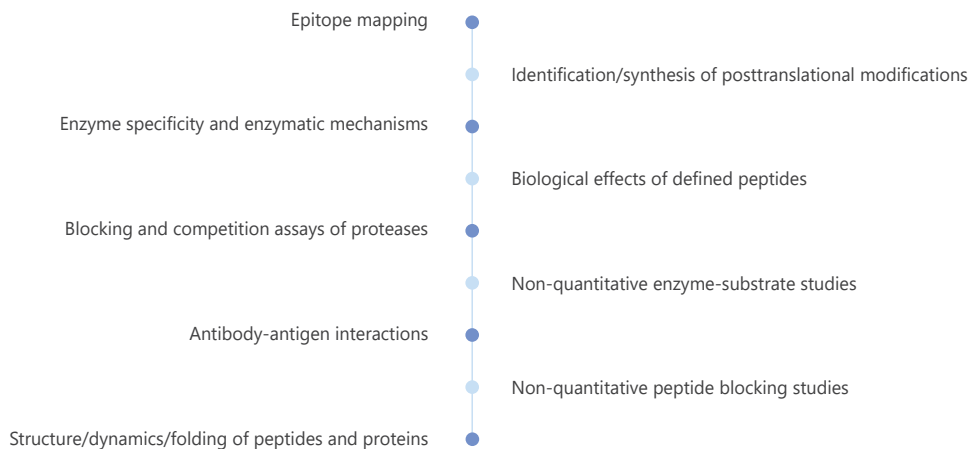
Peptides are often used in functional analysis, antibody research, vaccine research and especially in the field of drug research and development. Peptides have a variety of biological functions, such as, anti-thrombosis, anti-hypertension, antibacteria, antiviral, anticancer and antioxidation, immunoregulation, and cholesterol-lowering effects.

MedChemExpress (MCE) offers a wide range of **tag peptides**, **amino acid derivatives**, **blocking peptides**, and **bioactive peptides** to customers.

I Advantages:

- Innovation and diversification
- High purity and excellent activity
- Thorough analytical tests
- In-stock and fast delivery
- Professional technical support

I Applications:



I Tag Peptides:

(extensively used to isolate, purify, detect, and track the protein of interest in cell biology and biochemistry)

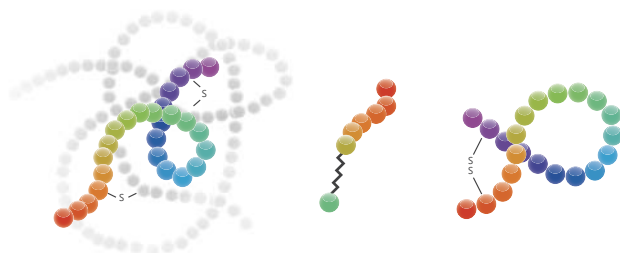
Cat. No.	Product Name	Information
HY-P0319	3X FLAG peptide	3X FLAG Peptide is a synthetic peptide with a 3-time repeated DYKXXD motif.
HY-P0239	HA Peptide	HA Peptide (HA tag) is a nine amino acids peptide derived from the human influenza hemagglutinin (HA).
HY-P0312	c-Myc Peptide Trifluoroacetate	c-Myc Peptide is a synthetic peptide corresponding to the C-terminal amino acids (410-419) of human c-myc protein.
HY-P0294	Hexa-His	Hexa-His is a peptide consisting of 6 His residues.
HY-P0327	T7 Tag Peptide	T7 Tag Peptide is a 11 amino acid peptide derived from the T7 major capsid protein.
HY-P0223	FLAG peptide	FLAG peptide is an eight amino acids peptide (Asp-Tyr-Lys-Asp-Asp-Asp-Lys) with an enterokinase-cleavage site; designed for antibody-mediated identification and purification of recombinant proteins.
HY-P0325	V5 Epitope Tag Peptide	V5 Epitope Tag Peptide is a tag peptide derived from a small epitope present on the P and V proteins of the paramyxovirus of simian virus 5.
HY-P0329	X-press Tag Peptide	X-press Tag Peptide is a tag peptide used for protein purification. X-press Tag is also an N-terminal leader peptide.
HY-P0326	S Tag Peptide	S Tag Peptide is a 15 amino acid peptide derived from RNase A.
HY-P0328	VSV-G Peptide	VSV-G Peptide is a 11 amino acid peptide derived from the Vesicular Stomatitis viral glycoprotein.

I Hot Peptides:

Cat. No.	Product Name	Information
HY-16658	Z-VAD(OMe)-FMK	Z-VAD(OMe)-FMK is a cell-permeable, pan-caspase inhibitor.
HY-P1156	Insulin (cattle)	Insulin cattle is a polypeptide hormone that regulates glucose metabolism in pancreatic islet B-cells.
HY-P0265	β -Amyloid 1-40	β -Amyloid (1-40) is a primary protein in plaques found in the brains of patients with Alzheimer's disease.
HY-P0252	α -Melanocyte-Stimulating Hormone (MSH), amide	α -Melanocyte-Stimulating Hormone (MSH), amide stimulates melanocortin 1 receptor that results in the activation of adenylyl cyclase.
HY-P0216	A 779	A 779 is a specific antagonist of G-protein coupled receptor (Mas receptor), which is an Ang1-7 receptor distinct from the classical AngII.
HY-P0201	Substance P	Substance P is a neuropeptide, acting as a neurotransmitter and as a neuromodulator.
HY-P0175	740 Y-P	740 Y-P (PDGFR 740Y-P) is a potent and cell permeable PI3K activator.
HY-101297	Z-IETD-FMK	Z-IETD-FMK is a selective and cell permeable caspase 8 inhibitor.
HY-13443	Exendin-4	Exendin-4, a 39 amino acid peptide, is a long-acting glucagon-like peptide -1 receptor agonist with an IC_{50} of 3.22 nM.
HY-P0017	Aprotinin	Aprotinin is a serine protease inhibitor isolated from bovine lung which inhibits trypsin and chymotrypsin with K_i values of 0.06 μ M and 9 nM, respectively.
HY-18234A	Leupeptin hemisulfate	Leupeptin hemisulfate is a reversible, competitive serine/cysteine protease inhibitor, which has been shown to inhibit cathepsins B, H, L, and S, calpain, and trypsin.
HY-P0018	Pepstatin	Pepstatin is a specific aspartic proteases inhibitor produced by actinomycetes, and also inhibits HIV protease.
HY-P0035	Insulin (human)	Insulin human is composed of 51 amino acids. It is a dimer of an A-chain and a B-chain, which are linked together by disulfide bonds.
HY-12403	Angiotensin 1-7	Angiotensin (1-7) inhibits purified canine angiotensin converting enzyme (ACE) activity with an IC_{50} of 0.65 μ M.
HY-P0014	Liraglutide	Liraglutide is a glucagon-like peptide-1 (GLP-1) receptor agonist used clinically to treat type 2 diabetes mellitus.
HY-12290	Arg-Gly-Asp-Ser	Arg-Gly-Asp-Ser is an integrin binding sequence that inhibits integrin receptor function.
HY-P0023	Cyclo(-RGDFk)	Cyclo(-RGDFk) is a potent and selective inhibitor of the $\alpha v\beta 3$ integrin.
HY-P0069	D-JNKI-1	D-JNKI-1 is a specific inhibitor of JNK, and strongly interferes with JNK activation.
HY-P0081	Bax inhibitor peptide V5	Bax inhibitor peptide V5 is a Bax-mediated apoptosis inhibitor, used for cancer treatment.
HY-P0118	Disitertide	Disitertide also named P144, is a inhibitor of TGF- β 1.

View more Peptides on www.MedChemExpress.com

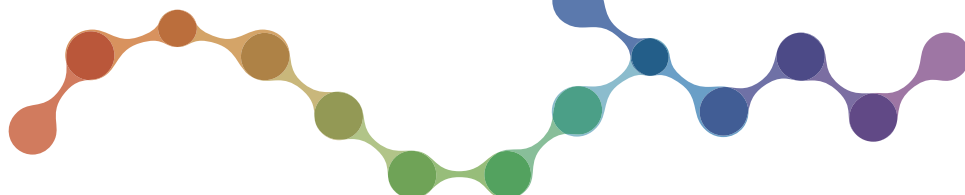
Custom Peptide Synthesis



Flexible Quantities:	from mg to kg.
Spectrum of Purities:	crude, desalted, 70% to 98% purity.
Latest Synthesis Technologies:	combination of solid phase and liquid phase synthesis, and microwave and ligation technologies.
Comprehensive Modifications:	more than 300 modifications ranging from phosphorylation, methylation, acetylation, and amidation to stable isotope labeling and conjugations.
Guaranteed Quality:	MS and HPLC analyses performed after the completion of synthesis, purification, and QC steps.
Reliable Technical Support:	MedChemExpress technical account managers and online resources provide the best service during the entire research cycle.

● Standard Peptide Synthesis:

Flexible Quantities and Purities



● Modifications of Peptide:

Phosphorylation, Methylation, Acetylation, and Amidation etc.

● Peptide Library:

Fast, Precise and Novel

● Recombinant Peptides:

Any length, Any sequence and Any size

Dye Reagents

- Cell Staining
- Protein Labeling
- Oligonucleotide Labeling
- Fluorescent Dyes/Probes

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Fluorescent Dyes/Probes are a class of aromatic hydrocarbons and heterocyclic compounds that can be excited through photoexcitation-fluorescence groups and emit fluorescence.

I Applications:

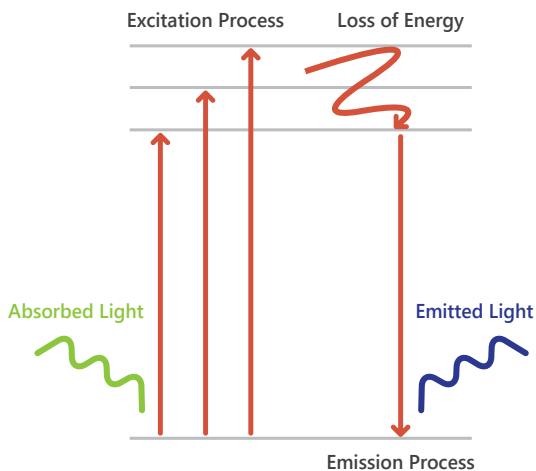
Immunofluorescence, fluorescent probes, cell staining;

Specific DNA staining, for chromosome analysis, cell cycle, apoptosis and other related research;

Multiple staining makes it possible to assess the topographic relationship of different targets.

I Advantages:

- High sensitivity
- High selectivity
- Cost-effective choice
- Strong technical support



Featured Dye Reagents:

	Product Name	Cat. No.	Excitation	Emission	Target
Cell Staining	Hoechst 33258	HY-15558	346 nm	460 nm	Nucleus
	Propidium Iodide (PI)	HY-D0815	535 nm	615 nm	Nucleus
	JC-1	HY-15534	514 nm; 585 nm	529 nm; 590 nm	Mitochondria
	Cresyl Violet Acetate	HY-101888	601 nm	632 nm	Neuron
	CFSE	HY-D0938	496 nm	516 nm	Cell division
	Calcein	HY-D0040	495 nm	515 nm	Lipid vesicle
	Dil	HY-D0083	549 nm	565 nm	Cell membrane
Protein Labeling	CY2-SE	HY-D0826	492 nm	510 nm	Amino groups
	Cy 3	HY-D0968	550 nm	570 nm	
	CY5	HY-D0821	646 nm	664 nm	
	CY7-SE	HY-D0824	750 nm	773 nm	
	Fluorescamine	HY-D0715	390 nm	475 nm	React with primary amine and emit fluorescence
	FITC	HY-66019	495 nm	519 nm	Protein labeling
Oligonucleotide Labeling	5-FAM SE	HY-15938	492 nm	518 nm	
	5-ROX	HY-D0784	567 nm	591 nm	
	6-TAMRA-SE	HY-D0049	543 nm	575 nm	
	Acridflavine	HY-100575	416 nm	514 nm	RNA
	DAPI	HY-D0814	360 nm	460 nm	A-T sequence DNA
Fluorescent Dyes/Probes	NucPE1	HY-101859	505 nm	530 nm	Nuclear-localized fluorescent hydrogen peroxide probe
	Pyranine	HY-D0023	454 nm	511 nm	PH-sensitive fluorescent probe
	Real Thiol	HY-108715	488 nm	562 nm	Quantification of GSH in live cells
	D-Luciferin	HY-12591A	328 nm	532 nm	Luciferase substrate
	5(6)-CFDA	HY-D0722	494 nm	521 nm	Esterase fluorescent probe
	Luminol	HY-15922	355 nm	411 nm	Emit a blue glow when reacting with an oxidizing agent
	PNPP	HY-15928	399 nm	405 nm	Enzyme substrate
	Dihydroethidium	HY-D0079	370 nm	420 nm	Peroxide indicator
	Nile Red	HY-D0718	552 nm	636 nm	Localize and quantitate lipids
	H2DCFDA	HY-D0940	488 nm	525 nm	Cell-permeable, non-fluorescent probe (contain Fluorescein)

Biochemical Assay Reagents

- Co-solvents
- Cell Assay Reagents
- Enzyme Substrates
- Chelating Agents, Indicators, Crosslinkers & Eluents

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I Co-solvents:

Cat. No.	Product Name	Cat. No.	Product Name
HY-Y1887	COTTONSEED OIL	HY-Y1891	Tween 80
HY-Y0873	PEG300	HY-W042416	N,N-Dimethylacetamide
HY-Y0873A	PEG400	HY-Y1892	Gelucire 14/44
HY-Y0921	(±)-1,2-Propanediol	HY-Y1893	Solutol HS-15
HY-Y1888	Corn oil	HY-107799	Castor oil
HY-Y0703	Cellulose carboxymethyl ether sodium	HY-Y0842	Formamide
HY-Y1889	Sodium carboxymethyl cellulose	HY-B1659	Glycerol
HY-Y1890	Cremophor EL	HY-B1620	Polyvinylpyrrolidone

I Cell Assay Reagents:

Cat. No.	Product Name	Information
HY-D0831	WST-8	WST-8 is a water-soluble tetrazolium dye, WST-8 enhances sensitivity of the WST-8-based assay over the conventional MTS-based assay.
HY-15924	MTT	MTT, a yellow tetrazole, is reduced to purple formazan in living cells, and used for assessing cell metabolic activity.
HY-B1102	Evans Blue	Evans Blue is a potent inhibitor of L-glutamate uptake via the membrane bound excitatory amino acid transporter (EAAT).

Enzyme Substrates:

Cat. No.	Product Name	Information
HY-15926	ONPG	ONPG is a colorimetric and spectrophotometric substrate for detection of β -galactosidase activity.
HY-D0714	Tetrazolium Red	Tetrazolium Red is used to visualize dehydrogenase enzyme activity; initially the tetrazolium solution is colorless but changes to red when it comes into contact with hydrogen.
HY-D0183	ATP-polyamine-biotin	APB is a cell-permeable, efficient kinase cosubstrate with conversions and kinetics similar to those of other known ATP analogues.
HY-D0719	Fluorescein Diacetate	Fluorescein diacetate is a cell permeable esterase-substrate. Fluorescein diacetate can be used as a fluorogenic substrate for hGSTP1-1.
HY-15906	AMPPD	AMPPD is a biochemistry ultrasensitive alkaline phosphatase substrate.
HY-15902	ABTS diammonium salt	ABTS diammonium salt is a substrate for horseradish peroxidase (HRP) conjugate.
HY-15936	γ -GT	γ -GT is a substrate for γ -glutamyl transferase in biochemical test.
HY-15927	PNPG	PNPG is a chromogenic β -D-glucosidase substrate, producing a yellow solution upon cleavage.
HY-D0255	o-Dianisidine dihydrochloride	o-Dianisidine dihydrochloride is a colorimetric peroxidase substrate suitable for use in ELISA procedures.
HY-P0022	pGlu-Pro-Arg-MNA	pGlu-Pro-Arg-MNA is a chromogenic substrate.
HY-P0020A	Tos-Gly-Pro-Arg-ANBA-IPA acetate	Tos-Gly-Pro-Arg-ANBA-IPA is a p-nitroanilide tripeptide substrate of thrombin.
HY-15911	CNP-AFU	CNP-AFU is a substrate for alpha-L-fucosidase(AFU).
HY-P0022A	pGlu-Pro-Arg-MNA monoacetate	pGlu-Pro-Arg-MNA monoacetate is a chromogenic substrate.
HY-P0020	Tos-Gly-Pro-Arg-ANBA-IPA	Tos-Gly-Pro-Arg-ANBA-IPA is a fluorogenic substrate.

Chelating Agents, Indicators, Crosslinkers & Eluents:

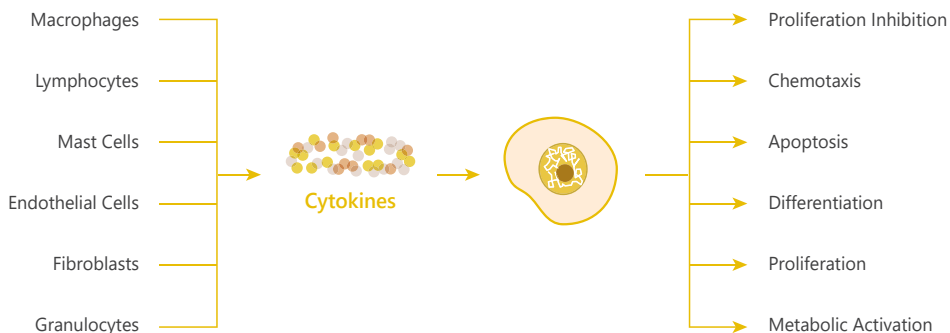
Cat. No.	Product Name	Information
HY-B1295	Citric acid trilithium salt tetrahydrate	Citric acid trilithium salt tetrahydrate is a pharmaceutical and construction material, used in HPLC gradient elution for quantitative amino acid analysis.
HY-100168	BAPTA	BAPTA is a specific chelator of Ca^{2+} , suppresses intracellular reactive oxygen species (ROS) levels.
HY-18593	6-O- α -Maltosyl- β -cyclodextrin	6-O- α -Maltosyl- β -cyclodextrin is a cellular cholesterol modifier which can form soluble inclusion complex with cholesterol.
HY-101183	THK5351	THK5351 can be radiolabeled and used as a radiotracer for in vivo imaging of tau pathology in the brain.
HY-101794	2-(Pyridyldithio)ethylamine hydrochloride	2-(Pyridyldithio)ethylamine hydrochloride is a novel disulfide intercalating cross-linking reagent.
HY-B1024	DL-Panthenol	DL-Panthenol is an intermediate of organic synthesis.

Cytokines

Apply For MCE Free Samples Now!

Cytokines are small secreted signaling proteins that play important roles in cell signaling. They act via binding to specific cell-surface receptors and activating downstream intracellular signaling, which leads to changes in function or phenotype.

Cytokines regulate diverse biological processes including innate and acquired immunity, hematopoiesis, inflammation and repair through mostly extracellular signaling.



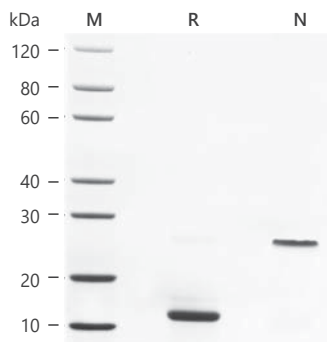
I Advantages:

- Broad Categories: interleukins, interferons, tumor necrosis factors, colony stimulating factor, growth factors, chemokines and others
- Low Endotoxin Levels: measured by LAL assay
- High Purity: tested by SDS-PAGE & HPLC
- Superior Biological Activity: validated by relevant *in vitro* or *in vivo* assays
- Excellent Lot-to-Lot Consistency: confirmed by Lot-to-Lot data
- Full Range Sizes: different pre-packaged sizes for various needs
- Competitive Price: superb quality with a reasonable price

I Applications:

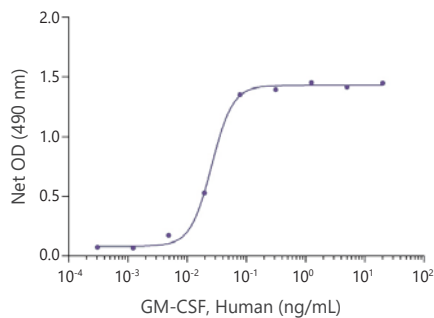
Immunology assay, Cell culture assay, Cell therapy, Apoptosis research, Stem cell culture and expansion, Functional analysis, In vitro biochemical analysis, Antibody production, Positive control, ELISA assay, Interaction analysis.

I High Purity:

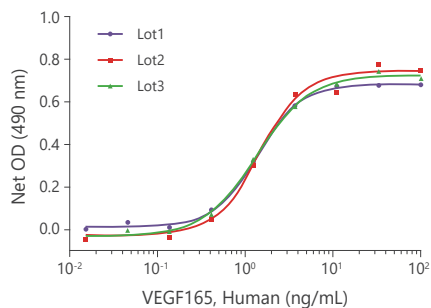


- ▶ 2 μg of human bone morphogenetic protein-2 (BMP-2) was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions.

I Superior Biological Activity:



- ▶ GM-CSF, human stimulates cell proliferation of TF-1 cells with an ED₅₀ of less than 0.1 ng/mL.



- ▶ The ED₅₀s of MCE VEGF165, human from three different Lots are similar.

I Featured Cytokines:

Cat. No.	Product Name	Abbreviation
HY-P7089	Recombinant Murine TNF-related apoptosis-inducing Ligand/TNFSF10	rMuTRAIL/TNFSF10
HY-P7088	Recombinant Murine Thrombopoietin	rMuTPO
HY-P7090	Recombinant Murine Tumor Necrosis Factor-alpha/TNFSF2	rMuTNF- α /TNFSF2
HY-P7117	Recombinant Murine TGF-beta 1/TGFB1	rMuTGF-beta 1/TGFB1
HY-P7064	Recombinant Murine Stem Cell Factor	rMuSCF
HY-P7087	Recombinant Murine Platelet-derived Growth Factor-BB	rMuPDGF-BB
HY-P7086	Recombinant Murine Noggin	rMuNoggin
HY-P7085	Recombinant Murine Macrophage Colony Stimulating Factor	rMuM-CSF

Cat. No.	Product Name	Abbreviation
HY-P7084	Recombinant Murine Leukemia Inhibitory Factor	rMuLIF
HY-P7083	Recombinant Murine Interleukin-9	rMuIL-9
HY-P7082	Recombinant Murine Interleukin-7	rMuIL-7
HY-P7063	Recombinant Murine Interleukin-6	rMuIL-6
HY-P7081	Recombinant Murine Interleukin-5	rMuIL-5
HY-P7080	Recombinant Murine Interleukin-4	rMuIL-4
HY-P7062	Recombinant Murine Interleukin-3	rMuIL-3
HY-P7079	Recombinant Murine Interleukin-22	rMuIL-22
HY-P7078	Recombinant Murine Interleukin-21	rMuIL-21
HY-P7077	Recombinant Murine Interleukin-2	rMuIL-2
HY-P7073	Recombinant Murine Interleukin-1 beta	rMuIL-1 β
HY-P7072	Recombinant Murine Interleukin-1 alpha	rMuIL-1 α
HY-P7076	Recombinant Murine Interleukin-13	rMuIL-13
HY-P7075	Recombinant Murine Interleukin-11	rMuIL-11
HY-P7074	Recombinant Murine Interleukin-10	rMuIL-10
HY-P7070	Recombinant Murine Insulin-like Growth factor-1	rMuIGF-1
HY-P7071	Recombinant Murine Interferon-gamma	rMuIFN- γ
HY-P7069	Recombinant Murine Granulocyte-Macrophage Colony Stimulating Factor	rMuGM-CSF
HY-P7068	Recombinant Murine Granulocyte Colony-stimulating Factor	rMuG-CSF
HY-P7067	Recombinant Murine Epidermal Growth Factor	rMuEGF
HY-P7066	Recombinant Murine Basic Fibroblast Growth Factor	rMubFGF
HY-P7065	Recombinant Murine Acidic Fibroblast Growth Factor	rMuaFGF
HY-P7110	Recombinant Human Vascular Endothelial Growth Factor 165	rHuVEGF165
HY-P7057	Recombinant Human Thymic Stromal Lymphopoietin	rHuTSLP
HY-P7058	Recombinant Human Tumor Necrosis Factor-alpha/TNFSF2	rHuTNF- α /TNFSF2
HY-P7115	Recombinant Human Thrombopoietin/TPO	rHuThrombopoietin/TPO
HY-P7056	Recombinant Human Stem Cell Factor	rHuSCF
HY-P7114	Recombinant Human R-spondin-1/RSPO1	rHuR-spondin-1/RSPO1
HY-P7112	Recombinant Human Parathyroid Hormone 1-84	rHuPTH1-84
HY-P7054	Recombinant Human Pigment Epithelium-derived Factor	rHuPEDF
HY-P7055	Recombinant Human Platelet-derived Growth Factor-BB	rHuPDGF-BB
HY-P7052	Recombinant Human Oncostatin-M	rHuOSM
HY-P7053	Recombinant Human Osteoprotegerin	rHuOPG

Cat. No.	Product Name	Abbreviation
HY-P7051	Recombinant Human Noggin	rHuNoggin
HY-P7050	Recombinant Human Macrophage Colony-stimulating Factor	rHuM-CSF
HY-P7049	Recombinant Human Leukemia Inhibitory Factor	rHuLIF
HY-P7048	Recombinant Human Keratinocyte Growth Factor-2/FGF-10	rHuKGF-2/FGF-10
HY-P7047	Recombinant Human Keratinocyte Growth Factor 1/FGF-7	rHuKGF-1/FGF-7
HY-P7046	Recombinant Human Interleukin-9	rHuIL-9
HY-P7045	Recombinant Human Interleukin-7	rHuIL-7
HY-P7044	Recombinant Human Interleukin-6	rHuIL-6
HY-P7043	Recombinant Human Interleukin-5	rHuIL-5
HY-P7042	Recombinant Human Interleukin-4	rHuIL-4
HY-P7041	Recombinant Human Interleukin-33	rHuIL-33
HY-P7040	Recombinant Human Interleukin-3	rHuIL-3
HY-P7039	Recombinant Human Interleukin-22	rHuIL-22
HY-P7038	Recombinant Human Interleukin-21	rHuIL-21
HY-P7037	Recombinant Human Interleukin-2	rHuIL-2
HY-P7028	Recombinant Human Interleukin-1 beta	rHuIL-1 β
HY-P7027	Recombinant Human Interleukin-1 alpha	rHuIL-1 α
HY-P7029	Recombinant Human Interleukin-1 Receptor Antagonist Protein	rHuIL-1RA
HY-P7036	Recombinant Human Interleukin-17	rHuIL-17
HY-P7035	Recombinant Human Interleukin-16, 130 a.a.	rHuIL-16, 130a.a.
HY-P7034	Recombinant Human Interleukin-15	rHuIL-15
HY-P7033	Recombinant Human Interleukin-13	rHuIL-13
HY-P7032	Recombinant Human Interleukin-12	rHuIL-12
HY-P7031	Recombinant Human Interleukin-11	rHuIL-11
HY-P7030	Recombinant Human Interleukin-10	rHuIL-10
HY-P7021	Recombinant Human Insulin-like Growth Factor-Binding Protein 5	rHuIGF-BP5
HY-P7020	Recombinant Human Insulin-like Growth Factor-Binding Protein 3	rHuIGF-BP3
HY-P7019	Recombinant Human Insulin-like Growth factor-2	rHuIGF-2
HY-P7018	Recombinant Human Insulin-like Growth Factor-1	rHuIGF-1
HY-P7026	Recombinant Human Interferon-lambda1/Interleukin-29	rHuIFN- λ 1/IL-29
HY-P7025	Recombinant Human Interferon-gamma	rHuIFN- γ
HY-P7091	Recombinant Rat Basic Fibroblast Growth Factor	rRtbFGF

Cat. No.	Product Name	Abbreviation
HY-P7024	Recombinant Human Interferon-beta1b	rHuIFN- β 1b
HY-P7023	Recombinant Human Interferon-alpha2b, Ecoli.	rHuIFN- α 2b
HY-P7022	Recombinant Human Interferon-alpha2a	rHuIFN- α 2a
HY-P7017	Recombinant Human Heparin-binding EGF-like Growth Factor	rHuHB-EGF
HY-P7016	Recombinant Human Granulocyte-Macrophage Colony Stimulating Factor	rHuGM-CSF
HY-P7015	Recombinant Human Granulocyte Colony Stimulating Factor	rHuG-CSF
HY-P7111	Recombinant Human Fms-related Tyrosine Kinase 3 Ligand	rHuFlt-3 Ligand
HY-P7014	Recombinant Human Fibroblast Growth Factor 4	rHuFGF-4
HY-P7013	Recombinant Human Fibroblast Growth Factor 23	rHuFGF-23
HY-P7012	Recombinant Human Fibroblast Growth Factor 21	rHuFGF-21
HY-P7011	Recombinant Human Epiregulin	rHuEpiregulin
HY-P7010	Recombinant Human Epigen	rHuEpigen
HY-P7009	Recombinant Human Endostatin	rHuEndostatin
HY-P7109	Recombinant Human Epidermal Growth Factor	rHuEGF
HY-P7008	Recombinant Human Bone Morphogenetic Protein 7	rHuBMP-7
HY-P7007	Recombinant Human Bone Morphogenetic Protein 4	rHuBMP-4
HY-P7006	Recombinant Human Bone Morphogenetic Protein 2	rHuBMP-2
HY-P7004	Recombinant Human Basic Fibroblast Growth Factor	rHuBFGF
HY-P7005	Recombinant Human Betacellulin	rHuBetacellulin
HY-P7116	Recombinant Human BDNF/Brain-derived neurotrophic factor	rHuBDNF/Brain-derived neurotrophic factor
HY-P7003	Recombinant Human B cell Activating Factor/TNFSF13B	rHuBAFF/TNFSF13B
HY-P7002	Recombinant Human Amphiregulin	rHuAmphiregulin
HY-P7001	Recombinant Human Acidic Fibroblast Growth Factor	rHuAFGF
HY-P7113	Recombinant Human 4-1BB Ligand/TNFSF9	rHu4-1BBL/TNFSF9
HY-P7108	Recombinant Rat Tumor Necrosis Factor-alpha/TNFSF2	rRtTNF- α /TNFSF2
HY-P7107	Recombinant Rat Stem Cell Factor	rRtSCF
HY-P7106	Recombinant Rat Resistin	rRtResistin
HY-P7105	Recombinant Rat Oncostatin-M	rRtOSM
HY-P7104	Recombinant Rat Interleukin-7	rRtIL-7
HY-P7094	Recombinant Rat Granulocyte-Macrophage Colony Stimulating Factor	rRtGM-CSF
HY-P7092	Recombinant Rat Epidermal Growth Factor	rRtEGF



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