

Inhibitors, Agonists, Screening Libraries

- Inhibitors
- Inhibitor Cocktails
- Compound Screening Libraries
- Disease Related Products
- Vitamin D Related Products
- Natural Products
- Antibody-Drug Conjugate Related Products

Immunology
Targeted
Inhibitors

Cancer
Targeted
Inhibitors

Antibody-Drug
Conjugates

Cell
Signaling
Pathways

Compound
Screening Libraries

GPCR/G Protein
Epigenetics
Cell Cycle/DNA Damage
Autophagy
Stem Cells/Wnt
NF- κ B
PI3K/Akt/mTOR
MAPK/ERK Pathway
Protein Tyrosine Kinase
TGF- β /Smad

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About Us

Overview of MCE

MedChemExpress (MCE) offers a wide range of high quality research chemicals and biochemicals including novel life-science reagents, reference compounds, APIs and natural compounds for laboratory and scientific use. MCE has knowledgeable and friendly customer service and technical support teams with years of experience in the life science industry. MCE will be a competent and trustworthy partner for your research and scientific projects.

Quality

Product quality is the key to our success and we take pride in offering only the highest-grade products. Product identity, quality, purity and activity are assured by our robust quality control and assurance policies, programs and procedures. We perform thorough analytical testing - including HNMR, LC-MS and HPLC - stability testing and activity assays on our products and the results from these tests are available to clients.

Experience

Our chemists are highly experienced in molecular synthesis and the preparation of large quantities of structurally diverse and synthetically challenging molecules. We work with clients that have widely different needs and we have been very successful in meeting such needs.

Services

We offer:

- Structurally and synthetically diverse biologically active compounds
- Flexible order volume ranging from milligrams to kilograms scale
- On-time delivery of products

We are a client-centric company and are always looking to hearing from you about how our products and services might better assist you.

Publications Citing Use of MCE Products:



Inhibitors

Over 15,000 selective inhibitors and agonists targeting more than 300 key proteins.



Target	Name	Cat. No.
0-9		
5-HT Receptor	Clozapine	HY-17366
	Lorcaserin	HY-15368

A		
AChE	Galanthamine	HY-76299
Adenosine Kinase	5-Iodotubercidin	HY-15424
Adenosine Receptor	Istradefylline	HY-10888
	Preladenant	HY-10889
Adrenergic Receptor	Mirabegron	HY-14773
	Vilanterol	HY-14300A
Akt	GSK2141795	HY-15965
	MK 2206	HY-10358
ALK	LDK378	HY-15656
	LDN193189	HY-12071A
Androgen Receptor	Enzalutamide	HY-70002
Angiotensin Receptor	AVE 0991	HY-15778
	PD 123319	HY-10259A
Antibacterial	CHIR-090	HY-15460
	Radezolid	HY-14800
	Tedizolid	HY-14855
Apoptosis Inducer	Triptolide	HY-32735
ATM	KU-60019	HY-12061
ATR	AZ20	HY-15557
	VE-822	HY-13902
Aurora Kinase	Alisertib	HY-10971
Axl	R428	HY-15150

B		
Bcl-2 Family	ABT-199	HY-15531
	ABT-737	HY-50907
	Navitoclax	HY-10087
WEHI-539	WEHI-539	HY-15607A
	Dasatinib	HY-10181
Bcr-Abl	Ponatinib	HY-12047
	(+)-JQ-1	HY-13030
BET Bromodomain	BI 2536	HY-50698
	GSK 525762A	HY-13032
	GSK1324726A	HY-13960
	I-BET151	HY-13235
	OTX-015	HY-15743
BTK	AVL-292	HY-18012
	CGI-1746	HY-11999
	PCI-32765	HY-10997

C		
Caspase	Z-VAD-FMK	HY-16658
CCR	INCB3344	HY-50674
CDK	LEE011	HY-15777
	LY2835219	HY-16297
	LY2857785	HY-12293
	Palbociclib	HY-50767
	SNS-032	HY-10008

C		
CENP-E	GSK-923295	HY-10299
c-Fms	Ki20227	HY-10408
CFTR	Ivacaftor	HY-13017
CGRP Receptor	MK-0974	HY-32709
	MK-3207	HY-10302
Chk	AZD-7762	HY-10992
	LY2603618	HY-14720
SCH900776	SCH900776	HY-15532
	CX-4945	HY-50855
c-Met/HGFR	Tivantinib	HY-50686
CMV	Letermovir	HY-15233
CXCR	Plerixafor	HY-50912
	Reparixin	HY-15251
SCH 527123	SCH 527123	HY-10198
	SCH 546738	HY-10017
Cytochrome P450	Abiraterone	HY-75054
	Cobicistat	HY-10493
	Orteronel	HY-10505
Talarozole	HY-14531	

D		
Deubiquitinase	ML-323	HY-17543
	SJB3-019A	HY-80012
DNA/RNA Synthesis	CX-5461	HY-13323
Dynamin	Mdivi-1	HY-15886
EGFR	Afatinib	HY-10261
	AZD-9291	HY-15772
	CO-1686	HY-15729
Erlotinib	HY-12008	
Endothelin Receptor	Atrasentan	HY-15403A
	Macitentan	HY-14184
Sitaxsentan	HY-11103	
ERK	XMD8-92	HY-14443
EZH2	3-Deazaneplanocin A	HY-12186
	EPZ-6438	HY-13803
	GSK126	HY-13470

F		
Factor Xa	5-R-Rivaroxaban	HY-76948
	Apixaban	HY-50667
	Rivaroxaban	HY-50903
FAK	PF-562271	HY-10459
	PND-1186	HY-13917
FGFR	BIBF 1120	HY-50904
	LY2874455	HY-13304
	NVP-BGJ398	HY-13311
Ponatinib	HY-12047	
FLT3	AST 487	HY-15002
	Pacritinib	HY-16379
	Ponatinib	HY-12047

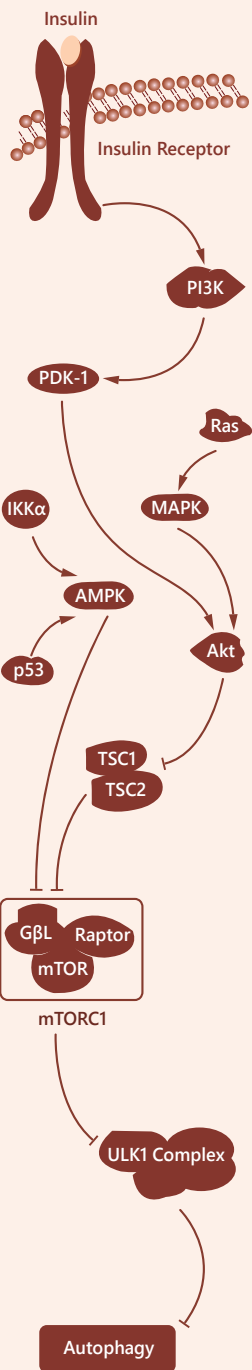
F		
FXR	GW 4064	HY-50108

G		
Gap Junction Protein	Tonabersat	HY-15204
Glucagon Receptor	MK 0893	HY-50663
GlyT1	Bitopertin	HY-10809
GPCR19	INT-777	HY-15677
GPR40	TAK-875	HY-10480
GSK-3	CHIR-99021	HY-10182
	Cinaciguat	HY-14181
Guanylate Cyclase	Riociguat	HY-14779

H		
HCV	Asunaprevir	HY-14434
	Boceprevir	HY-10237
	Ledipasvir	HY-15602
	PSI-7977	HY-15005
	R-1479	HY-10444
Simeprevir	Simeprevir	HY-10241
	Telaprevir	HY-10235
	Romidepsin	HY-15149
HDAC	Tasquinimod	HY-10528
	Vorinostat	HY-10221
Hedgehog	Vismodegib	HY-10440
HIF	FG-4592	HY-13426
HIV	BMS-626529	HY-15440
	Dolutegravir	HY-13238
Tipranavir	Tipranavir	HY-15148
	3-Deazaneplanocin A	HY-12186
HMTase	AZ505	HY-15226
	EPZ-5676	HY-15593
	EPZ-6438	HY-13803
GSK126	GSK126	HY-13470
	Ganetespib	HY-15205

I		
IAP	LCL161	HY-15518
IDO	IDO-IN-2	HY-15683
	INCB 024360	HY-15689
IKK	MLN120B	HY-15473
Influenza Virus	Oseltamivir	HY-13318
Integrin	Cilengitide	HY-16141
IRAK	IRAK inhibitor 4	HY-13278
Itk	BMS-509744	HY-11092

J		
JAK	AZD-1480	HY-10193
	Baricitinib	HY-15315
	CYT387	HY-10962
Pacritinib	HY-16379	
Ruxolitinib	Ruxolitinib	HY-50856
	CC-930	HY-15495
JNK	SP600125	HY-12041

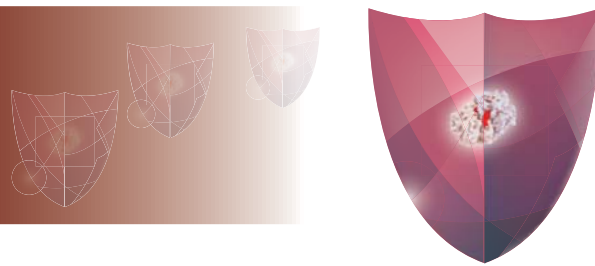


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Target	Name	Cat. No.
K		
Keap1-Nrf2	Bardoxolone	HY-13324
L		
LPL Receptor	AM095	HY-16039
	AM966	HY-15277
M		
mAChR	Umeclidinium	HY-12100
MDM2/p53	MI-773	HY-17493
	Nutlin-3a	HY-10029
	RG7112	HY-10959
	RG7388	HY-15676
MEK	Cobimetinib	HY-13064
	GDC-0623	HY-15610
	SCH772984	HY-50846
	Selumetinib	HY-50706
	Trametinib	HY-10999
	U0126	HY-12031
MELK	OTSSP167	HY-15512A
Microtubule/Tubulin	MMAD	HY-15581
	Monomethyl auristatin E	HY-15162
	VcMMAE	HY-15575
mTOR	AZD2014	HY-15247
	Everolimus	HY-10218
	Torin 2	HY-13002
	WYE-125132	HY-10044
MyD88	ST 2825	HY-50937
N		
Na ⁺ /Ca ²⁺ Exchanger	SEA0400	HY-15515
Na ⁺ /K ⁺ ATPase	Istaroxime	HY-15718A
nAChR	EVP-6124	HY-15430A
NAE	MLN4924	HY-70062
Nampt	FK866	HY-50876
O		
Others	AP1903	HY-16046
	AP20187	HY-13992
	SBE-β-CD	HY-17031
	Sobetirome	HY-14823
	Tacrolimus	HY-13756
	Teriflunomide	HY-15405
	TH-302	HY-10535
OX Receptor	Suvorexant	HY-10807
P		
p38 MAPK	SB 203580	HY-10256
p21-activated Kinases	PF-3758309	HY-13007
PARP	BMN-673	HY-16106
	MK-4827	HY-10619
	Olaparib	HY-10162
PDE	Bay 60-7550	HY-14992
	PF-04447943	HY-15441
PDGFR	BIBF 1120	HY-50904
PERK	GSK2606414	HY-18072
P-glycoprotein	Elacridar	HY-50879
	Tariquidar	HY-10550
	Zosuquidar	HY-50671
Phospholipase	Darapladib	HY-10521
PI3K	BYL-719	HY-15244
	CAL-101	HY-13026
	GDC-0032	HY-13898

Target	Name	Cat. No.
P		
PI3K	GDC-0941	HY-50094
	GSK2636771	HY-15245
	IPI-145	HY-17044
Pim	AZD1208	HY-15604
PKC	PKC412	HY-10230
PLK	BI 2536	HY-50698
Potassium Channel	Senicapoc	HY-50694
Prostaglandin Receptor	ONO-AE3-208	HY-50901
Proteasome	Bortezomib	HY-10227
	Carfilzomib	HY-10455
	MG-132	HY-13259
R		
Raf	Dabrafenib	HY-14660
	LGX818	HY-15605
	MLN 2480	HY-15246
	Vemurafenib	HY-12057
Ras	Salirasib	HY-14754
ROCK	SLX-2119	HY-15307
	Y-27632	HY-10583
RSV	TMC353121	HY-11097
S		
SCD	A939572	HY-50709
sFRP-1	WAY 316606	HY-10858
SGK	EMD638683	HY-15193
SGLT	Canagliflozin	HY-10451
SIKs	HG-9-91-01	HY-15776
Smo	LDE225	HY-16582
Src	Dasatinib	HY-10181
	Saracatinib	HY-10234
Syk	BAY 61-3606	HY-14985
T		
TGF-β Receptor	LY2109761	HY-12075
	LY2157299	HY-13226
	SD-208	HY-13227
TLR	GS-9620	HY-15601
	TAK-242	HY-11109
TNF-alpha	Lenalidomide	HY-A0003
	Necrostatin 2	HY-14622
Topoisomerase	Daun02	HY-13061
	Doxorubicin	HY-15142
	INNO-206	HY-16261
V		
VD/VDR	Calcipotriol	HY-10001
	Calcitriol	HY-10002
	Maxacalcitol	HY-32339
VEGFR	BIBF 1120	HY-50904
	Cabozantinib	HY-13016
	Ponatinib	HY-12047
	Regorafenib	HY-10331
	SU5416	HY-10374
	Vandetanib	HY-10260
W		
Wnt	ICG-001	HY-14428
Y		
γ-secretase	DAPT	HY-13027
	LY-411575	HY-50752
	PF-3084014	HY-15185

Inhibitor Cocktails



Protect Your Proteins
More Efficiently!

Protease Inhibitor Cocktail (EDTA-Free)

Cat. No.: HY-K0010 (100× in DMSO)

Protease inhibitor cocktail is used in mammalian cell lysates or tissue extracts to increase protein stability.

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

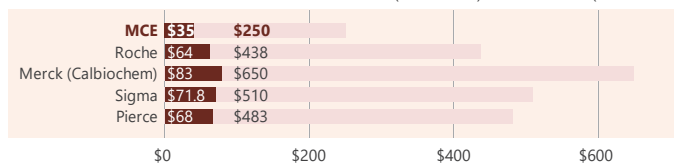
Cat. No.: HY-K0011 (mini-Tablet)

One mini-Tablet can be added to 10 mL extraction medium directly.

mini-Tablet	Price
25 pcs	\$120
50 pcs	\$200

Price Comparison

Size: ■ 1 mL (100× Conc.) ■ 1 mL × 10 (100× Conc.)



Components

Ingredient	Target	Ingredient	Target
AEBSF	Serine proteases	E-64	Cysteine proteases
Aprotinin	Serine proteases	Leupeptin	Serine and cysteine proteases
Bestatin	Aminoamidases	Pepstatin A	Aspartic proteases

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.

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

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)

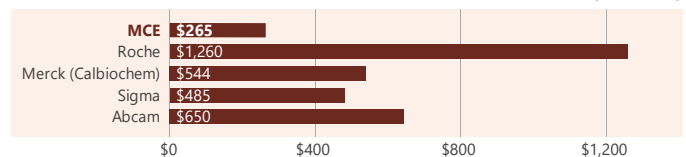
Cat. No.: HY-K0022

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

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

Price Comparison

Size: ■ 1 mL × 10 (100× Conc.)



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)

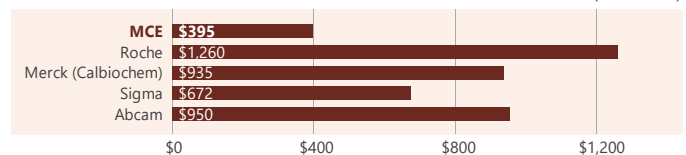
Cat. No.: HY-K0023

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

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

Price Comparison

Size: ■ 1 mL × 10 (100× Conc.)



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

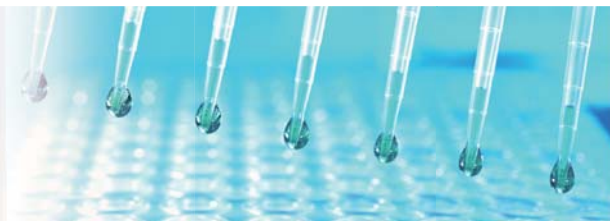
Deacetylase Inhibitor Cocktail is a synergistic combination of chemicals designed to preserve the acetylation state of proteins.

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

Components

Ingredient	Target	100× Conc.
Trichostatin A	Class I/II HDAC	40 μM
EX-527	SIRT	1 mM
Nicotinamide	Class III HDAC	400 mM
Sodium Butyrate	Class I/II HDAC	200 mM

Screening Libraries



Bioactive Compound Screening Libraries (96- or 384-well)

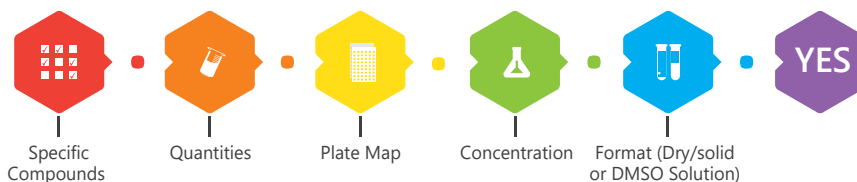
Our ready-to-use MedChemExpress (MCE) compound libraries consist of **over 10,000 small molecules** with validated biological and pharmacological activities. They are available for **high-throughput screening (HTS)** and **high-content screening (HCS)**. Compound libraries are useful professional tools for drug discovery and new indication research.

We offer **over 300 exclusive compounds worldwide** and track the latest scientific innovations to give our customers access to **the newest small molecules**. We are dedicated to providing **high-quality small molecules** to our customers around the world.



Customize Your Library

MCE offers customized compound libraries based on your specific needs. You can select compounds, format (powder/liquid), size and plate map depending on your requirements.



MCE Hot Compound Libraries

Bioactive Compound Library

Kinase Inhibitor Library

GPCR/G Protein Compound Library

FDA-Approved Drug Library

Clinical Compound Library

Anti-Infection Compound Library

Anti-Cancer Compound Library

Epigenetics Compound Library

...

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MCE Screening Library Partners



Disease Related Products



Cancer	Enzalutamide	MG-132	MLN4924	BIBF 1120	GSK126	SCH772984
	Everolimus	(+)-JQ-1	Cilengitide	Trametinib	Olaparib	Palbociclib
	Dasatinib	AZD-9291	PCI-32765	Z-VAD-FMK	GSK 525762A	BMN-673
	Selumetinib	Y-27632	OTX-015	OTSSP167	Vemurafenib	Afatinib
	Bortezomib	LY294002	Cobimetinib	U0126	GDC-0032	Monomethyl auristatin E
Cardiovascular Disease	SEA0400	Riociguat	Apixaban	Rivaroxaban	Istaroxime	AVE 0991
	Macitentan	Bosentan	Cinaciguat	Darapladib	5-R-Rivaroxaban	PD 123319
	Vernakalant	Sitaxsentan	AHU-377	Mibefradil	20-HETE	NS-304
	Dabigatran etexilate					
Endocrinology	Forskolin	INT-777	Ivacaftor	Ibutamoren	VX-809	Ulipristal
	Mifepristone	Silodosin	TAK-438	DHEA	Etonogestrel	Cabergoline
	Tanaproget	MSI-1436	Dienogest	Pasireotide		
Infection	Simeprevir	Dolutegravir	PSI-7977	Telaprevir	Asunaprevir	Boceprevir
	Ledipasvir	Letermovir	Cobicistat	BMS-626529	Rilpivirine	Elvitegravir
	Entecavir	Ritonavir	Emtricitabine	Ribavirin	Tenofovir	Lamivudine
	Adefovir dipivoxil	Efavirenz	Lopinavir			
Metabolic Disease	TAK-875	MK-8245	Lorcaserin	CHIR-99021	GW 4064	Ipragliflozin
	Canagliflozin	Maxacalcitol	LX-4211	EMD638683	Lesinurad	Alfacalcidol
	Sobetirome	Ranirestat	Dapagliflozin	LCQ-908	Odanacatib	Pioglitazone
	PTC124	Rosiglitazone				
Neurological Disease	DAPT	Suvorexant	Clozapine	PF-04447943	Tonabersat	PF-3084014
	EVP-6124	LY-411575	Istradefylline	MK-3207	Bay 60-7550	Galanthamine
	BMS-927711	Opicapone	Lu AE58054	Cebranopadol	Pitolisant	Brexpiprazole
	Brivaracetam	Vortioxetine	LX1606	SKF-82958		
	TAK-242	SB 203580	ST 2825	Reparixin	Calcipotriol	HG-9-91-01
Inflammation/Immunology	Ruxolitinib	Talarozole	Baricitinib	AM966	Tacrolimus	GS-9620
	CC-930	Resiquimod	Umeclidinium	BMS-509744	Ki20227	Vilanterol
	RN486	MCC950	Teriflunomide			

Vitamin D Related Products



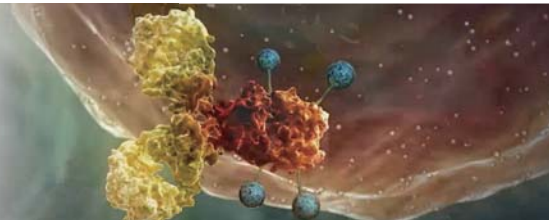
(24R)-MC 976	25-Hydroxy VD2-D6	1alpha-Hydroxy VD4	(24S)-MC 976	Alfacalcidol	25,26-Dihydroxyvitamin D3
VD2-D3	VD3-D6	Vitamin D4	24, 25-Dihydroxy VD2	24, 25-Dihydroxy VD3	24R-Calcipotriol
Falcalcitriol	Lexacalcitol	Secalciferol	Seocalcitol	Tacalcitol	Alfacalcidol-D6
Calcifediol	Calcifediol-D6	Calcipotriol	Calcitetrol	Calcitriol	Calcitriol D6
Calcitriol Derivatives	Cholecalciferol	Doxercalciferol	Doxercalciferol-D3	Eldecalcitol	Ercalcidol
Maxacalcitol	Maxacalcitol-D6	MC 1046	MC 976	Paricalcitol	Paricalcitol-D6
Impurity B of Calcitriol	Impurity C of Alfacalcidol	Impurity C of Calcitriol	Impurity of Calcipotriol	(24S)-24,25-Dihydroxyvitamin D3	
3-O-(2-Aminoethyl)-25-hydroxyvitamin D3		1alpha, 25-Dihydroxy VD2-D6		1alpha, 24, 25-Trihydroxy VD2	

Natural Products



Saccharides and Glycosides	Xylitol	L-Rhamnose	Manninotriose			
Phenylpropanoids	Psoralen	Psoralidin	Sauchinone	Schisandrin	Schisanhenol	Schisandrin B
	Schisandrin C	Schisandrin A	Schisandrol B	Schisantherin A	Schisantherin B	Schisantherin E
Quinones	Arbutin	Aloin B	Aloe emodin			
Flavonoids	Icariin	Troloxerutin	Puerarin	Luteolin	Catechin	Strychnine
	Isoliquiritigenin	Astragaloside	Sanggenone C	(-)-Epicatechin gallate	Calycosin-7-O-β-D-glucoside	
Terpenoids and Glycosides	Ginsenoside Rb1	Ginsenoside Rb2	Ginsenoside Rb3	Ginsenoside Rc	Ginsenoside Rd	Ginsenoside Re
	Ginsenoside Rg1	Atractylenolide I	Atractylenolide II	Atractylenolide III	Pulchrenoside A	Anemoside B4
	Cucurbitacin B	Cucurbitacin E	Astragaloside IV	Norcantharidin	Ginsenoside F2	Ginsenoside Rf
	Ginsenoside Rg2	Ginsenoside Rh1	Ginsenoside Rh3	Ginsenoside Ro	Ginkgolide B	Ginsenoside C-K
	Notoginsenoside R1	Neoandrographolide				
Steroids	Polyphyllin I	Stigmasterol	β-Sitosterol	Progesterone	Bufalin	
Alkaloids	Aconitine	Theobromine	Piperine	Matrine	Peimine	Epiberberine
	Lappaconitine	Rhynchophylline	Neferine	Nitidine chloride	Dinorargemonine	Dendrobine
	Vindoline	10-Hydroxycamptothecin				
Phenols	Curcumin	Apocynin	Salidroside	Gastrodin	Polydatin	Rosmarinic acid
Acids and Aldehydes	Homovanillic acid	γ-aminobutyric acid				

Antibody-Drug Conjugate Related Products



ADC Cytotoxins	Mitomycin C	Paclitaxel	Triptolide	Daun02	MMAD	Ansamitocin P-3
	Methotrexate	D8-MMAE	Camptothecin	Dolastatin 10	Doxorubicin	Auristatin E
	Auristatin F	Daunorubicin	Tubulysin A	PNU-159682	MMAF	Taltobulin
	PF-06380101	10-Deacetyl-7-xylosyl paclitaxel		Monomethyl auristatin E		
ADC Linkers	Val-cit-PAB-OH	Fmoc-Val-Cit-PAB	Fmoc-Val-Cit-PAB-PNP	Mc-Val-Cit-PABC-PNP	(Ac)Phe-Lys(Alloc)-PABC-PNP	
		6-Maleimidohexanoic acid N-hydroxysuccinimide ester				
Antibody-Drug Conjugates	VcMMAE	INNO-206	Vc-MMAD	Mc-MMAD	Mc-MMAE	Cys-mcMMAD
		DOXO-EMCH				

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