Product Name: Lenalidomide
CAS No.: 191732-72-6
Cat. No.: HY-A0003
MWt: 259.26
Formula: C13H13N3O3
Purity : >98%

Solubility: DMSO ≥50mg/mL Water <1.2mg/mL Ethanol <1.2mg/mL

Mechanisms:
Pathways:Apoptosis ; Target:TNF-alpha

Biological Activity:
Lenalidomide (Revlimid, CC-5013) is a TNF-α secretion inhibitor with IC50 of 13 nM.
IC50 Value: 13 nM [1]
Target: TNF-alpha
in vitro: Lenalidomide strongly induces IL-2 and sIL-2R production. Lenalidomide-induced tyrosine
phosphorylation of CD28 on T cells is followed by a down-stream activation of NF-κB [2].
Lenalidomide and pomalidomide inhibits autoubiquitination of CRBN in HEK293 T cells expressing
thalidomide-binding competent wild-type CRBN, but not thalidomide-binding defective CRBN
(YW/AA). Overexpression of CRBN wild-type protein, but not CRBN (YW/AA) mutant protein, in
KMS12 myeloma cells, amplifies pomalidomide-mediated reductions in c-myc and IRF4 expression
and increases in p21(WAF-1) expression. Long-term selection for Lenalidomide resistance in H929
myeloma cell lines is accompanied by a reduction in CRBN, while in DF15R myeloma cells resistant
to both ...

References:
[3]. Lopez-Girona A, et al. Cereblon is a direct protein target for immunomodulatory and
2012 Dec;14(4):872-82.
[5]. Kiaei M, et al. Thalidomide and lenalidomide extend survival in a transgenic mouse model of
Pharmacol Ther. 2...

Caution: Not fully tested. For research purposes only

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