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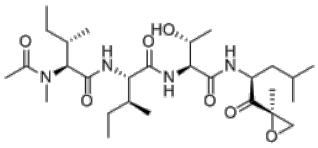
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Epoxomicin
Cat. No.	:	PC-21916
CAS No.	:	134381-21-8
Molecular Formula	:	$C_{28}H_{50}N_4O_7$
Molecular Weight	:	554.73
Target	:	Proteasome
Solubility	:	10 mM in DMSO



Biological Activity

Epoxomicin (BU-4061T) is a potent, selective and irreversible proteasome inhibitor, covalently binds to the LMP7, X, MECL1, and Z catalytic subunits of the proteasome and potently inhibits primarily the chymotrypsin-like activity.
Epoxomicin does not inhibit nonproteasomal proteases such trypsin, chymotrypsin, papain, calpain, and cathepsin B at concentrations of up to 50 uM.
Epoxomicin is a more potent inhibitor of the chymotrypsin-like activity than lactacystin and the peptide vinyl sulfone NLVS.
Epoxomicin also effectively inhibits NF-kappaB activation in vitro and potently blocks in vivo inflammation in the murine ear edema assay.

References

Hanada M, et al. J Antibiot (Tokyo). 1992 Nov;45(11):1746-52.

Meng L, et al. Proc Natl Acad Sci U S A. 1999 Aug 31;96(18):10403-8.

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