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DATASHEET

Epoxomicin

Product overview

Name	Epoxomicin
Cat No	HB3890
Purity	>97%
Description	Potent, selective and irreversible 20S proteasome inhibitor

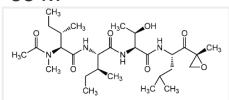
Biological Data

Biological description	Antibiotic. Potent anticancer compound. Cell permeable, potent, selective and irreversible 20S proteasome inhibitor. Predominantly inhibits the chymotrypsin-like (CTRL) activity of the proteasome. Exhibits lower level inhibition of proteasome trypsin-like and caspase-like activities (100 and 1,000-fold slower rates respectively). Anti-inflammatory. Antimicrobial and antimalarial. Anti-parasitic. Stimulates bone formation by inhibiting osteoblast proteasome activity. Induces Parkinson's-like symptoms in rats. The ubiquitin-proteasome system (UPS) and autophagy serve as two complementary, reciprocally regulated protein degradation systems. Blockade of UPS by Epoxomicin activates autophagy.
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Solubility & Handling

Storage instructions	+4 °C
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Molecular Weight	554.7
Chemical structure	
CAS Number	134381-21-8
PubChem identifier	0
SMILES	<chem>CC[C@H](C)[C@H](NC(=O)[C@H]([C@@H](C)CC)N(C)C(C)=O)C(=O)N[C@@H]([C@@H](C)O)C(=O)N[C@@H](CC(C)C)C(=O)NCC(=O)[C@@]1(C)CO1</chem>
InChiKey	DOGIDQKFVLKMLQ-JTHVHQAWSA-N
Appearance	White to off-white solid