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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 activitives (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.

Solubility & Handling

Storage instructions Storage of solutions +4°C

Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 Chemical structure

134381-21-8

CAS Number PubChem identifier

SMILES

=O)N[C@@H](CC(C)C)C(=O)NCC(=O)[C@@]1(C)CO1

DOGIDQKFVLKMLQ-JTHVHQAWSA-N **InChiKev**

Appearance White to off-white solid