Epoxomicin

Key inhibitor for use in proteasome research.

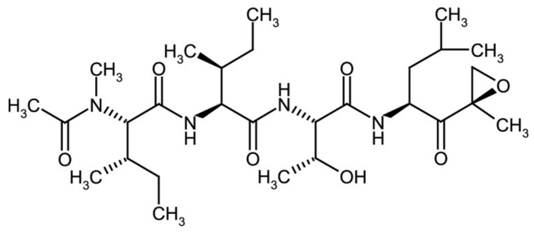
Cell permeable, potent and selective proteasome inhibitor originally isolated from *Actinomycetes* strain based on its potent *in vivo* antitumor activity. More potent inhibitor of the chymotrypsin-like activity of the proteasome than lactacystin (Prod. No. BML-PI104). Blocks also trypsin-like and PGPH activities of the proteasome. Regulates antigen presentation at non-toxic doses. Effectively inhibits NF-κB activation *in vitro* and potently blocks inflammation *in vivo* in the mouse ear edema assay.The ubiquitin-proteasome system (UPS) and autophagy serve as two complementary, reciprocally regulated protein degradation systems, thus blockade of UPS by Epoxomicin activates autophagy.

Citations: 38 View Online »

Ordering Information Order Online »

BML-PI127-0100	100µg

Manuals, SDS & CofA View Online »



CH3
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 1 year after receipt when stored, as supplied, at -20°C. Stock solutions are stable for up to 3 months at -20°C.
Handling	Protect from light. Avoid freeze/thaw cycles.
Long Term Storage	-20°C
Shipping	Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Lyophilized. Very thin transparent film.
CAS	134381-21-8
Couple Target	Proteasome
Couple Type	Inhibitor
Formula	$C_{28}H_{50}N_4O_7$
MI	**14:** 3630
MW	554.7
Purity	≥95% (HPLC)
Solubility	Soluble in DMSO (15mg/ml) or dichloromethane:methanol (9:1); insoluble in water.

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