clasto-Lactacystin β-Lactone

Proteasome inhibitor

Highly specific, cell permeable, and irreversible 20S proteasome inhibitor. Inhibits ubiquitin proteasome pathway in cell culture (IC_{50}=1μM). It has been suggested that the natural product lactacystin acts as a precursor for *clasto*-lactacystin β-lactone and that the latter is the sole species that interacts with the proteasome. Inhibits cathepsin A. Leads to a reduction of adipogenesis. Induces neurite growth and inhibits cell cycle progression.

Citations: 14 View Online »

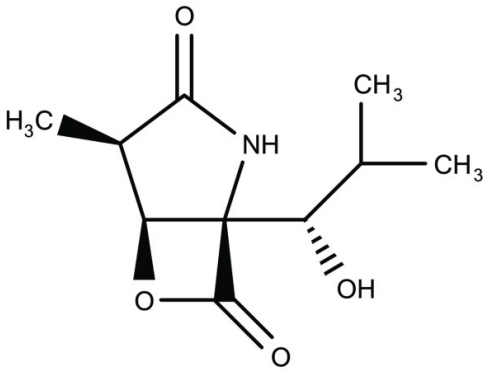
Ordering Information

Order Online »

BML-PI108-0100	100μg

Manuals, SDS & CofA

View Online »


O
CH3
H3C
NH
CH3
OH
O
O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Stable for at least 2 years after receipt when stored, as supplied, at -20°C. Stock solutions are stable for up to 1 month at -80°C.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Omuralide
Appearance	White solid.
CAS	154226-60-5
Couple Target	Cathepsin, Proteasome 20S
Couple Type	Inhibitor
Formula	$C_{10}H_{15}NO_4$
MW	213.2
Purity	≥95% (HPLC)
Solubility	Soluble in DMSO (25mg/ml) or acetonitrile.

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