clasto-Lactacystin β-Lactone

Proteasome inhibitor

Highly specific, cell permeable, and irreversible 20S proteasome inhibitor. Inhibits ubiquitin proteasome pathway in cell culture (IC_{50} =1 μ M). 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

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Ordering Information

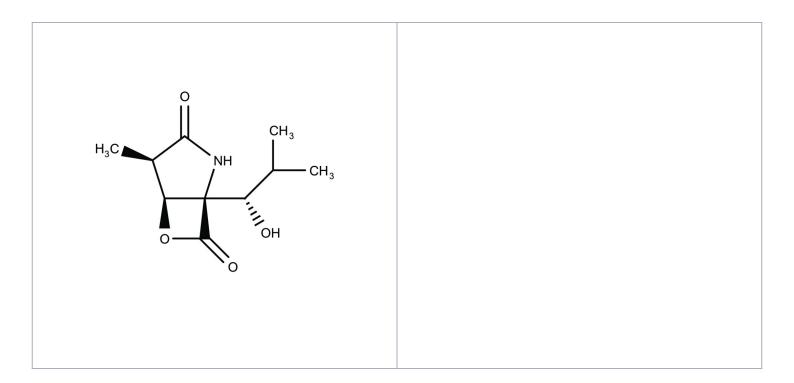
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BML-PI108-0100

100µg

Manuals, SDS & CofA

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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.

Last modified: September 15, 2025



European Sales Office