Lactacystin

Key inhibitor for use in proteasome research.

A potent and selective irreversible proteasome inhibitor. Specifically inhibits 20S proteasome (MCP; multicatalytic complex). Blocks proteasome activity by targeting the catalytic β -subunit. Has no effect on serine or cysteine proteases. Induces apoptosis inhuman monoblast U937 cells. Inhibits NF- κ B activation by inhibiting I κ B degradation (IC $_{50}$ =10 μ M). Inhibits the ubiquitin proteasome pathway in cell culture. Inhibits cathepsin A. Upregulates HSP70 and HSP22, suggesting an initial neuroprotective pathway. Induces neurite outgrowth in Neuro 2A mouse neuroblastoma cells.

Citations: 75

View Online »

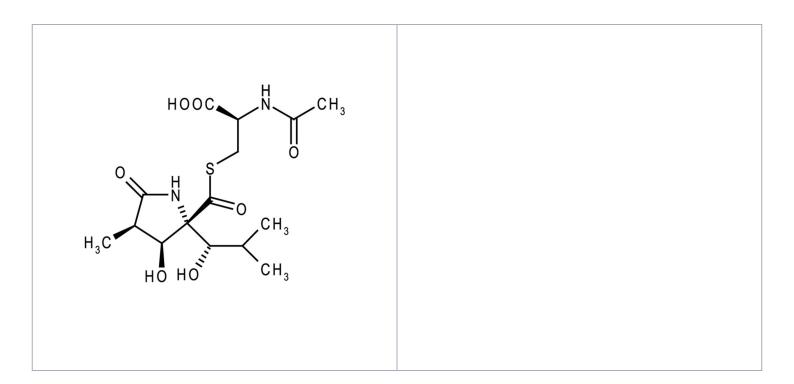
Ordering Information

Order Online »

BML-PI104-1000	1mg
BML-PI104-0200	200μg

Manuals, SDS & CofA

View Online »



Handling & Storage

Use/Stability As indicated on product label or CoA when stored as recommended. Organic stock

solutions are stable for 3 months when stored at -20°C. Subject to hydrolysis in aqueous

buffers. We do not recommend storing aqueous solutons for more than one day.

Handling Protect from light. Avoid freeze/thaw cycles.

Long Term Storage -20°C

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Appearance White to off-white solid.

CAS 133343-34-7

Couple Target Proteasome 26S

Couple Type Inhibitor

Formula $C_{15}H_{24}N_2O_7S$

Identity Determined by 1H-NMR and MS.

MW 376.4

Purity ≥97% (HPLC)

Solubility Soluble in water (10mg/ml), 100% ethanol (1mg/ml), methanol, DMSO (20mg/ml),

dimethyl formamide (20mg/ml) or acetonitrile (20mg/ml).

Source Synthetic



ENZO LIFE SCIENCES, INC. Phone: 800.942.0430 infousa@enzolifesciences.com European Sales Office ENZO LIFE SCIENCES (ELS) AG Phone: +41 61 926 8989 infoeu@enzolifesciences.com Belgium, The Netherlands & Luxembourg Phone: +32 3 466 0420 infobe@enzolifesciences.com

France
Phone: +33 472 440 655
infofr@enzolifesciences.com

Germany Phone: +49 7621 5500 526 infode@enzolifesciences.com UK & Ireland Phone (UK customers): 0845 601 1488 Phone: +44 1392 825900 info-

uk@enzolifesciences.com