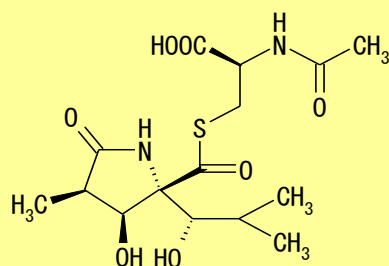


# Lactacystin

Cat.# BLK0460

## Structure



Lactacystin

**Origin:** *Streptomyces lactacystinnaeus* OM-6519**CAS Registry Number:** 133343-34-7**Appearance:** white powder**Molecular Formula/ Weight:** C<sub>15</sub>H<sub>24</sub>N<sub>2</sub>O<sub>7</sub>S=376.13**Purity:** >98.0% by HPLC**Solubility:** Sol. in DMSO, MeOH, EtOH, water

## Background Information:

Biological activity: 1) Lactacystin inhibits cell cycle progression and induces neurite outgrowth in Neuro 2a cells. 2) Inhibits proteasome activity. Proteasome exhibits three protease activities of the tree, Lactacystin inhibits chymotrypsin-like activity most potently, followed by trypsin-like activity, but its inhibitory activity against peptidylglutamylpeptide hydrolytic activity is relatively weak.

## Handling and Storage:

Store at -20°C.

## References:

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Manufactured with Cortesy strain from The Kitasato Institute.

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