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Product Information

Product ID L0107

CAS No. 133343-34-7

Chemical Name

Synonym

Formula C₁₅H₂₄N₂O₇S

Formula Wt. 376.43

Melting Point

Purity ≥98%

Solubility Soluble DMSO or water.

Bulk quanitites available upon request

Product ID	Size
L0107	100 μg
L0107	200 μg
L0107	500 μg
L0107	1 ma

Store Temp -20°C

Ship Temp Ambient

Description Lactacystin is a proteasome inhibitor initially produced by Streptomyces that exhibits hepatoprotective, anti-metastatic, and anticancer chemotherapeutic activities. Lactacystin increases the Bax/Bcl-2 ratio and inhibits proliferation of cells and growth of tumors in models of glioma. Additionally, lactacystin inhibits growth and migration of smooth muscle cells. In animal models of intestinal ischemia/reperfusion-induced liver injury, lactacystin inhibits activation of NF-κB, suppresses infiltration of neutrophils, and decreases levels of ICAM-1.

References Wang H, Zhang S, Zhong J, et al. The proteasome inhibitor lactacystin exerts its therapeutic effects on glioma via apoptosis: an in vitro and in vivo study. J Int Med Res. 2013 Feb;41(1):72-81. PMID: 23569132.

> Barringhaus KG, Matsumura ME. The proteasome inhibitor lactacystin attenuates growth and migration of vascular smooth muscle cells and limits the response to arterial injury. Exp Clin Cardiol. 2007 Fall;12(3):119-24. PMID: 18650992.

Yao JH, Li YH, Wang ZZ, et al. Proteasome inhibitor lactacystin ablates liver injury induced by intestinal ischaemia-reperfusion. Clin Exp Pharmacol Physiol. 2007 Nov;34(11):1102-8. PMID: 17880361.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.