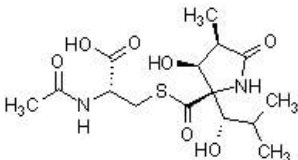


Product datasheet

Lactacystin, proteasome inhibitor ab141411

[4 References](#) [1 Image](#)

Overview

Product name	Lactacystin, proteasome inhibitor
Description	Cell-permeable, potent and selective proteasome inhibitor
Biological description	Potent, irreversible, cell-permeable, selective 20S proteasome inhibitor (IC_{50} = 70 nM). Inhibits cell-cycle progression and induces neurite outgrowth <i>in vitro</i> . Anti-bacterial and antitumor agent. Active <i>in vivo</i> and <i>in vitro</i> .
Purity	> 95%
General notes	This product is manufactured by BioVision, an Abcam company and was previously called 1709 Lactacystin (Synthetic). 1709-200 is the same size as the 200 µg size of ab141411.
CAS Number	133343-34-7
Chemical structure	

Properties

Chemical name	2-Acetamido-3-[3-hydroxy-2-(1-hydroxy-2-methylpropyl)-4-methyl-5-oxopyrrolidine-2-carbonyl]sulfanylpropanoic acid
Molecular weight	376.42
Molecular formula	$C_{15}H_{24}N_2O_7S$
PubChem identifier	3870
Storage instructions	Shipped at 4°C. Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 50 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour. Need more advice on solubility, usage and handling? Please visit our frequently asked

[questions \(FAQ\) page](#) for more details.

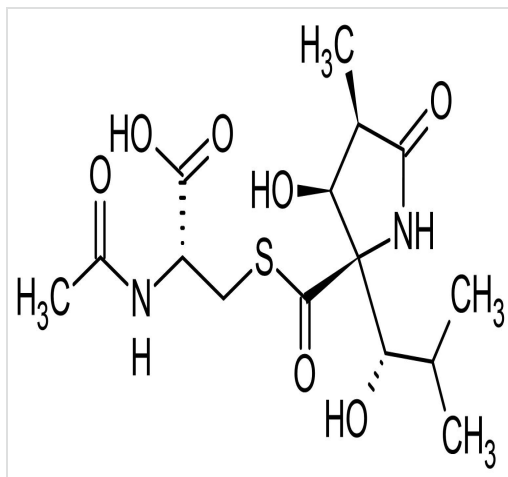
SMILES

CC1C(C(NC1=O)(C(C(C)C)O)C(=O)SCC(C(=O)O)NC(=O)C)O

Source

Synthetic

Images



2D chemical structure image of ab141411, Lactacystin, proteasome inhibitor

Chemical Structure - Lactacystin, proteasome inhibitor (ab141411)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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