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## DATASHEET

clasto-Lactacystin  $\beta$ -lactone

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### Product overview

Name	clasto-Lactacystin $\beta$ -lactone
Cat No	HB3842
Purity	>95%
Description	Potent, selective and irreversible proteasome inhibitor

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### Biological Data

Biological description	Potent and selective irreversible and cell permeable proteasome inhibitor. Inhibits the chymotrypsin-like, trypsin-like and caspase-like peptidase activity of the proteasome. The active metabolite of lactacystin with higher potency since it does not require hydrolysis in order to become cell permeable. Calpain and cathepsin inhibitor. Apoptosis inducer. Anticancer compound. Induces differentiation and inhibits cell cycle progression in several tumor cell lines. Induces neuritogenesis. Autophagy inducer.
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### Solubility & Handling

Storage instructions	+4°C
Solubility overview	Soluble in DMSO (75mM) and in water (10mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

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### Chemical Data

Molecular Weight	213.2
Chemical structure	
CAS Number	154226-60-5
InChiKey	FWPWHUJACGNMZ-OEUIFBLYSA-N
Appearance	White to off-white solid

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