

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



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## DATASHEET

### clasto-Lactacystin $\beta$ -lactone

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#### Product overview

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

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#### Biological Data

<b>Biological description</b>	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

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (75mM) and in water (10mM)
<b>Important</b>	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

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

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