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DATASHEET

clasto-Lactacystin β-lactone

Product overview

Name clasto-Lactacystin β-lactone

Cat No HB3842 **Purity** >95%

Description Potent, selective and irreversible proteasome inhibitor

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.

Solubility & Handling

Solubility overview Soluble in DMSO (75mM) and in water (10mM)

Storage instructions +4°C

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions Stable for ambient temperature shipping. Follow storage instructions on receipt.

Important This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Molecular Weight **Chemical structure**

154226-60-5

CAS Number

InChiKey FWPWHHUJACGNMZ-OEUIFBLYSA-N

213.2

White to off-white solid **Appearance**