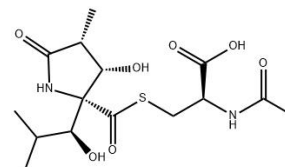


## Technical Data Sheet

### LACTACYSTIN

#### Compound Information

<b>Product Name:</b>	LACTACYSTIN
<b>CAS No.:</b>	133343-34-7
<b>Molecular Formula:</b>	C <sub>15</sub> H <sub>24</sub> N <sub>2</sub> O <sub>7</sub> S
<b>Molecular Weight:</b>	376.43
<b>Storage:</b>	Powder -20°C 3 years; 4°C 2 years In solvent -80°C 6 months; -20°C 1 month
<b>Revision Date:</b>	2026-04-27



#### Analytical Information

Tests	Specifications
Description	Lactacystin is a potent and selective inhibitor of the 20S proteasome.
Native Source	Streptomyces lactacystiniae strain OM-6519
Form	powder
Color	White to off-white
Purity (HPLC)	99.4%
Solubility	water to 10 mM
IUPAC Name	(2R,3S,4R)-3-Hydroxy-2-[(1S)-1-hydroxy-2-methylpropyl]-4-methyl-5-oxo-2-pyrrolidinecarboxy-N-acetyl-L-cysteine thioester

Disclaimer: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.