

## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b>Lactacystin (synthetic)</b> From <i>Streptomyces lactacystinaeus</i> C <sub>15</sub> H <sub>24</sub> N <sub>2</sub> O <sub>7</sub> , M.W.376.4, CAS# [133343-34-7]
<b>PRODUCT NUMBER:</b>	L-1147
<b>LOT NUMBER:</b>	J1025
<b>APPEARANCE:</b>	Lyophilized or white crystalline solid (NOTE: Vials appear empty – but contain a lyophilized solid)
<b>SOLUBILITY:</b>	Soluble in DMSO, water or ethanol.
<b>PURITY (TLC):</b>	> 98%
<b>ANALYSIS (NMR):</b>	Conforms
<b>MELTING POINT:</b>	236 – 238°C
<b>PRODUCT DESCRIPTION:</b>	Specific inhibitor of three proteolytic activities of the proteasome. Chymotrypsin-like activity is inhibited most potently followed by Trypsin-like activity. Peptidyl-glutamyl peptide hydrolytic activity is relatively weak.
<b>STORAGE &amp; HANDLING:</b>	Store desiccated at –20°C. Store solutions at -20°C for up to 1 month. Avoid freeze/thaw cycles. <b>PROTECT FROM LIGHT!</b> CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: **KS**