



## CERTIFICATE OF ANALYSIS

<b>PRODUCT:</b>	<b><i>clasto</i>-Lactacystin <math>\beta</math>-lactone</b> (synthetic), [Omuralide] C <sub>10</sub> H <sub>15</sub> NO <sub>4</sub> , M.W. 213.2, CAS# [155975-72-7]
<b>PRODUCT NUMBER:</b>	L-1055
<b>LOT NUMBER:</b>	B1250
<b>APPEARANCE:</b>	White solid. Compound is presented as a thin film-vial may appear empty.
<b>SOLUBILITY:</b>	Soluble in DMSO, 25 mg/ml
<b>PURITY:</b>	> 95%
<b>IDENTITY:</b>	Identity determined by <sup>1</sup> H-NMR.
<b>APPLICATION NOTES:</b>	DMSO stock solutions can be diluted with pH 7 buffer (do not use after one day-gradually hydrolyzes in aqueous media). Cell permeable, irreversible proteasome inhibitor. 20-fold more potent than lactacystin. Lactacystin spontaneously converts to <i>clasto</i> -lactacystin in biological systems. It is believed that <i>clasto</i> is the only cell permeable form of lactacystin. Induces neurite growth and inhibits cell cycle progression similar to lactacystin.
<b>STORAGE &amp; HANDLING:</b>	Store at -20°C for up to 2 years. Store solutions at -80°C for up to one month. <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: **KT**