

<b>Product Name:</b>	Curvularin
<b>Product Number:</b>	C189
<b>CAS Number:</b>	10140-70-2
<b>Molecular Formula:</b>	$C_{16}H_{20}O_5$
<b>Molecular Weight:</b>	292.3
<b>Appearance:</b>	White solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Curvularin is a 12-membered macrocyclic lactone incorporating a resorcinyly moiety, produced by a number of fungal species including Curvularia, Penicillium and Alternaria. Curvularin exhibits a distinctly different biological profile to the structurally similar resorcyclic acid lactones such as the zearalenones, radicicol and LL Z1640-2. Curvularin inhibits cell division by disrupting mitotic spindle formation and is known to be phytotoxic.</p>
<b>Mechanism of Action:</b>	<p>Curvularin is soluble in ethanol, methanol, DMF and DMSO.</p> <p>Curvularin inhibits cell division by disrupting mitotic spindle formation and is known to be phytotoxic. More recent investigations have shown that curvularin is a highly selective transcription-based inhibitor of iNOS-dependent NO production, acting on the Janus tyrosine kinase-STAT pathway.</p>
<b>References:</b>	<p>Studies in relation to biosynthesis. Part XX. The structure and biosynthesis of curvularin. Birch J. A. et al. J. Chem. Soc. 1959, 3146.</p> <p>Sporogen, S14-95 and S-curvularin, three inhibitors of human inducible nitric-oxide synthase expression isolated from fungi. Yao Y. et al. Mol. Pharmacol. 2003, 63, 383.</p>