

Product Name:	Cercosporamide
Product Number:	C164
CAS Number:	131436-22-1
Molecular Formula:	C ₁₆ H ₁₃ NO ₇
Molecular Weight:	331.3
Appearance:	Light to dark tan solid
Storage Conditions:	-20°C
Description:	<p>Cercosporamide was originally identified as a host-selective phytotoxin and broad spectrum antifungal agent isolated from <i>Cercosporidium henningsii</i>.</p> <p>Cercosporamide is soluble in ethanol, methanol, DMF and DMSO.</p>
Mechanism of Action:	<p>Cercosporamide was shown to inhibit a cell wall integrity pathway mediated through a serine/threonine protein kinase, Pkc1, that is central to cell wall biosynthesis. It is both a potent (IC₅₀<50nM) and selective inhibitor of Pkc1 kinase.</p>
References:	<p>Discovery of cercosporamide, a known antifungal natural product, as a selective Pkc1 kinase inhibitor through high-throughput screening. Sussman A. et al. <i>Eukaryot Cell</i>. 2004, 3, 932.</p> <p>Cloning and characterization of KNR4, a yeast gene involved in (1,3)-beta-glucan synthesis. Hong Z. et al. <i>Mol. Cell Biol</i>. 1994, 14, 1017.</p> <p>The structure and biological activity of cercosporamide from <i>Cercosporidium henningsii</i>. Sugawara F. et al. <i>J. Org. Chem</i>. 1991, 56, 909.</p>