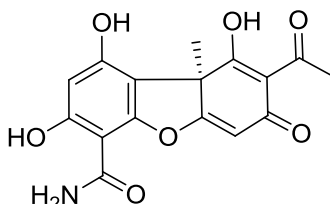


Cercosporamide

Code No.: **BIA-C1015**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms :

Specifications

CAS #	: 131436-22-1
Molecular Formula	: C ₁₆ H ₁₃ NO ₇
Molecular Weight	: 331.3
Source	: <i>Cercosporidium</i> sp.
Appearance	: Light to dark tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Cercosporamide was originally identified as a host-selective phytotoxin and broad spectrum antifungal agent isolated from *Cercosporidium henningsii*. More recently, 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.

References

1. Discovery of cercosporamide, a known antifungal natural product, as a selective Pkc1 kinase inhibitor through high-throughput screening. Sussman A. et al., *Eukaryot Cell*. 2004, 3, 932.
2. Cloning and characterization of KNR4, a yeast gene involved in (1,3)-beta-glucan synthesis. Hong Z. et al., *Mol. Cell Biol.* 1994, 14, 1017.
3. The structure and biological activity of cercosporamide from *Cercosporidium henningsii*. Sugawara F. et al., *J. Org. Chem.* 1991, 56, 909.