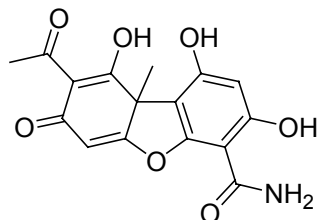


## Cercosporamide

Code: **BIA-C1015**

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



Synonyms :

### Specifications

CAS #	: 131436-22-1
Molecular Formula	: C <sub>16</sub> H <sub>13</sub> NO <sub>7</sub>
Molecular Weight	: 331.3
Source	: <i>Cercosporidium</i> sp. MST-FP1899
Appearance	: Dark tan lyophilisate
Purity	: > 95% by HPLC
Long Term Storage	: +4°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

### 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 (IC<sub>50</sub> < 50 nM) 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. *Eukaryotic 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.