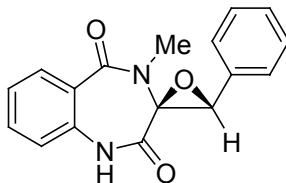


## Cyclophenin

Code: **BIA-C1126**

Pack sizes: **5 mg, 25 mg**



Synonyms : -

## Specifications

CAS #	: <b>19553-26-5</b>
Molecular Formula	: <b>C<sub>17</sub>H<sub>14</sub>N<sub>2</sub>O<sub>3</sub></b>
Molecular Weight	: <b>294.3</b>
Source	: <b><i>Penicillium</i> sp. MST-FP1766</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt; 99% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility</b>

## Application Notes

Cyclophenin is one of an unusual family of benzodiazepine metabolites produced by a number of *Penicillium* species. Often mistakenly referred to as a mycotoxin, cyclophenin shows little toxicity against mammalian cells, bacteria or fungi *in vitro*. Cyclophenin is an intermediate in the biosynthesis of the viridicacins, strong inhibitors of the tumor necrosis factor alpha (TNF)-induced replication of human immunodeficiency virus (HIV). Lack of availability has hitherto restricted a more intensive investigation of this interesting metabolite.

## References

1. Studies in the biochemistry of microorganisms. 93. Cyclophenin, a nitrogen-containing metabolic product of *Penicillium cyclopium* Westling. Bracken A. et al. *Biochem J.* **1954**, 57, 587.
2. Isolation and characterization of the fungal metabolite 3-O-methylviridicatin as an inhibitor of tumour necrosis factor alpha-induced human immunodeficiency virus replication. Heguy A. et al. *Antivir. Chem. Chemother.* **1998**, 9, 149.