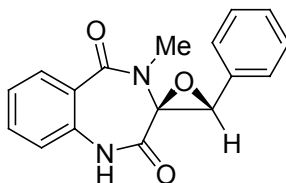


Cyclopenin

Code: **BIA-C1126**

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



Synonyms : -

Specifications

CAS #	: 19553-26-5
Molecular Formula	: C₁₇H₁₄N₂O₃
Molecular Weight	: 294.3
Source	: <i>Penicillium</i> sp. MST-FP1766
Appearance	: White solid
Purity	: > 99% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility

Application Notes

Cyclopenin is one of an unusual family of benzodiazepine metabolites produced by a number of *Penicillium* species. Often mistakenly referred to as a mycotoxin, cyclopenin shows little toxicity against mammalian cells, bacteria or fungi *in vitro*. Cyclopenin is an intermediate in the biosynthesis of the viridicatin, 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. Cyclopenin, 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.