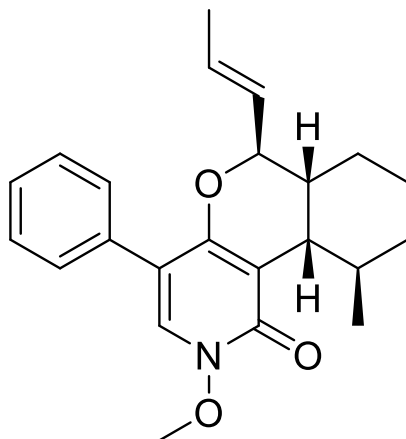


Leporin A

Code No.: **BIA-L3029**

Pack sizes: **1 mg, 5 mg**



Synonyms : -

Specifications

CAS #	: 140381-54-0
Molecular Formula	: C ₂₃ H ₂₇ NO ₃
Molecular Weight	: 365.5
Source	: <i>Aspergillus leporis</i>
Appearance	: Off-white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol and DMSO.

Application Notes

Leporin A is a pyridone metabolite selectively accumulated in the sclerotia of *Aspergillus leporis* and reported by Gloer and co-workers, University of Iowa in 1991 as an antiinsectan. The N-methoxy-2-pyridone moiety of leporin A is to date unique among fungal natural products. Leporin A demonstrates insecticidal activity against the corn earworm *Helicoverpa zea* and mild antibacterial activity against *B. subtilis*. Leporin A is produced by a PKS-NRPS biosynthetic gene cluster, containing a rare multifunctional SAM-dependent enzyme that catalyses three pericyclic reactions leading to its dihydropyran core.

References

1. TePaske M.R. et al. (1991). Leporin A: An antiinsectan N-alkoxy-pyridone from the sclerotia of *Aspergillus leporis*. *Tetrahedron Lett.*, 32, 5687.
2. Ohashi M. et al. (2017). SAM-dependent enzyme-catalysed pericyclic reactions in natural product biosynthesis. *Nature*, 549, 502.
3. Cary J. et al. (2015). An *Aspergillus flavus* secondary metabolic gene cluster containing a hybrid PKS–NRPS is necessary for synthesis of the 2-pyridones, leporins. *Fungal Genet. Biol.*, 81, 88.

For in vitro laboratory use only. Not for human or animal use.