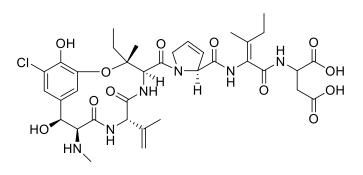


PRODUCT DATA SHEET

Phomopsin D

Code No.: BIA-P2987

Pack sizes: 0.5 mg, 2.5 mg



Synonyms

Specifications

CAS #	:	175617-09-1
Molecular Formula	:	C ₃₆ H ₄₇ CIN ₆ O ₁₂
Molecular Weight	:	791.3
Source	:	Phomopsis sp.
Appearance	:	Off-white solid
Purity	:	>95% by HPLC
Long Term Storage	:	-20°C
Solubility	:	Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Phomopsin D is the dihydro derivative of phomopsin A, an acidic 13-membered cyclic hexapeptide-like metabolite with three unusual amino acids linked in an 'ansa' macrocycle. Phomopsin D, like other phomopsins, is a potent mycotoxin found in infected lupins. Phomopsin D binds selectively to dimeric tubulin at a site overlapping that of vinblastine and maytansine, inhibiting the formation of the microtubule spindle to block cell division.

References

- 1. Identification of novel phomopsins in lupine seed extracts. Cockrum P.A. et al. Proceedings of the 4th International Symposium on Poisonous Plants, 1994, 232.
- 2. Structure elucidation and absolute configuration of phomopsin A, a hexapeptide mycotoxin produced by phomopsis leptostromiformis. Culvenor C.C.J. et al. Tetrahedron 1989, 45, 2351.
- 3.
- 4. Interaction of phomopsin A and related compounds with purified sheep brain tubulin. E. Lacey et al. Biochem Pharmacol. 1987, 36, 2133.

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