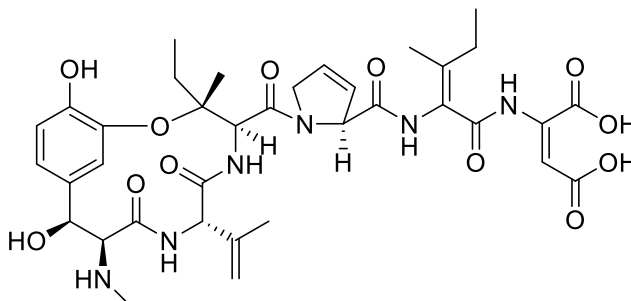


## Phomopsin B

Code No.: **BIA-P2965**

Pack sizes: **0.25 mg, 1 mg**



Synonyms :

### Specifications

CAS #	: 64925-81-1
Molecular Formula	: C <sub>36</sub> H <sub>46</sub> N <sub>6</sub> O <sub>12</sub>
Molecular Weight	: 754.8
Source	: <i>Phomopsis</i> 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 B is the dechloro analogue of phomopsin A first reported by Culvenor and colleagues, CSIRO Australia in 1977. Phomopsin B is produced by the fungus *Phomopsis leptostromiformis*, the causal agent in lupin poisoning (lupinosis). The phomopsins contain a macrocyclic hexapeptide with a 13-membered ring formed by an ether bridge. Phomopsin B is a potent microtubule inhibitor, blocking the polymerization of tubulin at concentrations of less than 1 mM. The phomopsins exert their action on tubulin by interaction at or near the vinblastine binding site.

### References

1. Isolation of toxic metabolites of *phomopsis leptostromiformis* responsible for lupinosis. Culvenor C.C. et al. Aust J Biol Sci. 1977, 30, 269.
2. Interaction of phomopsin A and related compounds with purified sheep brain tubulin. Lacey E. et al. Biochem Pharmacol. 1987, 36, 2133.