



LKT Laboratories, Inc.

Phomopsin A

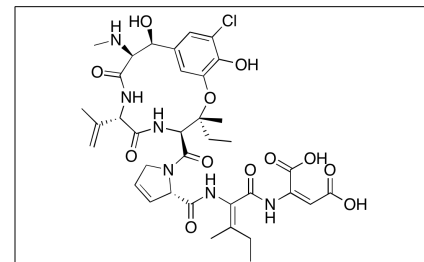
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Product Information

Product ID P298576
CAS No. 64925-80-0
Chemical Name Phomopsin A

Synonym Phomopsin; AC105PXJ; PHO-A; NSC 381839

Formula $C_{36}H_{45}ClN_6O_{12}$
Formula Wt. 789.24
Melting Point
Purity $\geq 98\%$
Solubility



Bulk quantities available upon request

Product ID	Size
P298576	1 mg
P298576	5 mg

Store Temp -20°C
Ship Temp Ambient

Description Phomopsin A is a cyclic hexapeptide isolated from *Phomopsis leptostromiformis*. It is an antibiotic and a modifier of tubulin functions. It is a very potent inhibitor of microtubule assembly by binding to tubulin at a site different from the colchicine binding site. It has anti-proliferative activity against MCF-7 cells

References Hamel E. Natural products which interact with tubulin in the vinca domain: maytansine, rhizoxin, phomopsin A, dolastatins 10 and 15 and halichondrin B. *Pharmacol Ther.* 1992;55(1):31-51. PMID: 1287674

Li Y, Kobayashi H, Tokiwa Y, et al. Interaction of phomopsin A with porcine brain tubulin. Inhibition of tubulin polymerization and binding at a rhizoxin binding site. *Biochem Pharmacol.* 1992, 43(2):219-24. PMID: 1739410

van Aswegen CH, Lewko WM, Wittliff JL. Influence of phomopsin and ivalin on steroid-hormone binding and growth of MCF-7 human breast cancer cells. *J Toxicol Environ Health.* 1985;16(1):13-23. PMID: 4068051

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.