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Product Information

Product ID 0610291 CAS No. 4611-05-6

Chemical Name (7E,18R)-3-Hydroxy-5-oxo-14,18-epoxyophiobola-7,19-dien-25-

Synonym Cochiobolin A, NSC 114340, Cochliobolin, Ophiobolin,

CHEBI:7777.

Formula C₂₅H₃₆O₄ Formula Wt. 400.56 Melting Point 171-180°C Purity ≥98% Solubility

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
O610291	1 mg	\$173.30
O610291	5 mg	\$651.00
O610291	10 mg	\$1102.50

Store Temp -20°C Ship Temp Ambient

Description Ophiobolin A (Cochliobolin A) is a tetracyclic sesterpenoid phytotoxin isolated from cochliobolus heterostrophus. This

phytotoxin displays growth-inhibitory effects both in plants cells and in mammalian cells. Ophiobolin A was found to have antitumor effect in the B16F10 mouse melanoma model with lung pseudometastases.

Ophiobiolin A induces paraptosis-like cell death in human glioblastoma cells by decreasing BKCa channel activity.

In addition, ophiobolin A's anti-cancer activity is attributed to its covalent modification of phosphatidylethanolamine in human cancer cells as well as its ability to activate mitochondrial pathway of apoptosis in tumor cells. TEST!!!!!!

References Bury M, Novo-Uzal E, Andolfi A, et al. Ophiobolin A, a sesterterpenoid fungal phytotoxin, displays higher in vitro growthinhibitory effects in mammalian than in plant cells and displays in vivo antitumor activity. Int J Oncol. 2013; 43(2):575-85. PMID: 23754298.

> Bury M, Girault A, Mégalizzi V, et al. Ophiobolin A induces paraptosis-like cell death in human glioblastoma cells by decreasing BKCa channel activity. Cell Death Dis. 2013, 28;4:e561. PMID: 23538442

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Chidley C, Trauger SA, Birsoy K, O'Shea EK. The anticancer natural product ophiobolin A induces cytotoxicity by covalent modification of phosphatidylethanolamine. Elife. 2016;5. pii: e14601. PMID: 27403889.

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