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## **Product Information**

Product ID A464768 CAS No. 56258-32-3

Chemical Name (12S,12aS,12bR)-4,9,12,12b-tetrahydroxy-2,11,12,12a-tetrahydro-1H-

perylene-3,10-dione

**Synonym** (12S,12As,12Br)-4,9,12,12B-Tetrahydroxy-2,11,12,12A-Tetrahydro-1H-Perylene

-3,10-Quinone, Altertoxin-I

Formula C<sub>20</sub>H<sub>16</sub>O<sub>6</sub> Formula Wt. 352.34 **Melting Point** 

Purity ≥97%

Solubility Clear slight pink solution at

10mg/ml of

Dichloromethane

Store Temp -20°C Ship Temp Ambient

**Description** Altertoxin I is a mycotoxin produced by the fungi Alternaria alternata that is found as a contaminant in food an feed,

particularly after a long period of storage. Altertoxin I is a metabolite that has been found to reduce the supercoiling activity of DNA gyrase. In addition, Altertoxin I has been evaluated for the ability to inhibit HIV-1 viral replication in A3.01 infected cells

and was found to produce nearly complete inhibition.

OH HO\* Н HO OH

## Bulk quanitites available upon request

**Product ID** Size A464768 1 mg A464768 5 mg A464768 10 mg

References Jarolim K, Del Favero G, Ellmer D, et al. Dual effectiveness of Alternaria but not Fusarium mycotoxins against human topoisomerase II and bacterial gyrase. Arch Toxicol. 2017 Apr;91(4):2007-2016. PMID: 27682608.

> Jarolim K, Del Favero G, Pahlke G, et al. Activation of the Nrf2-ARE pathway by the Alternaria alternata mycotoxins altertoxin I and II. Arch Toxicol. 2017 Jan;91(1):203-216. PMID: 27178040.

> Bashyal BP, Wellensiek BP, Ramakrishnan R, et al. Altertoxins with potent anti-HIV activity from Alternaria tenuissima QUE1Se, a fungal endophyte of Quercus emoryi. Bioorg Med Chem. 2014 Nov 1;22(21):6112-6116. PMID: 25260957.

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Stack ME, Prival MJ. Mutagenicity of the Alternaria metabolites altertoxins I, II, and III. Appl Environ Microbiol. 1986 Oct;52 (4):718-722. PMID: 3535674.

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