

Product Data Sheet

Product Name: Altertoxin I

Cat. No.: GC42772

Chemical Properties

Cas. No. 56258-32-3

Chemical Name (1S,12aR,12bS)-1,2,11,12,12a,12b-hexahydro-1,4,9,12a-tetrahydroxy-3,10-perylenedio

SMILES O=C(CC[C@@]1(O)[C@@]([C@@H](O)C2)([H])C3=C4C=CC(O)=C3C2=O)C5=C1C4=CC=C5O

Formula C₂₀H₁₆O₆

M.Wt 352.3

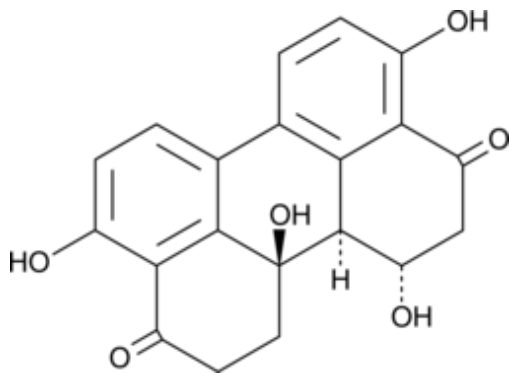
Solubility 10mg/mL in dichloromethane

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Altertoxin I (Dihydroalterperyleneol) is a quinone-type mycotoxin produced by *Alternaria alternata* fungi, which is mutagenic and cytotoxic, and can weakly disrupts metabolic communication[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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References:

- [1]. Jarolim K, 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.
- [2]. Boutin BK, et al. Effects of purified altertoxins I, II, and III in the metabolic communication V79 system. *J Toxicol Environ Health*. 1989;26(1):75-81.
- [3]. Stack ME, et al. Mutagenicity of the *Alternaria* metabolites altertoxins I, II, and III. *Appl Environ Microbiol*. 1986 Oct;52(4):718-22.

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