



LKT Laboratories, Inc.

Helvolic acid

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Product Information

Product ID H174466

CAS No. 29400-42-8

Chemical Name (2Z)-2-[(4S,5S,6S,8S,9S,10R,13R,14S,16S)-6,16-diacetyloxy-4,8,10,14-tetramethyl-3,7-dioxo-5,6,9,11,12,13,15,16-octahydro-4H-cyclopenta[a]phenanthren-17-ylidene]-6-methylhept-5-enoic acid

Synonym Fumigacin, NSC 319943, BRN 3230584

Formula C₃₃H₄₄O₈

Formula Wt. 568.71

Melting Point

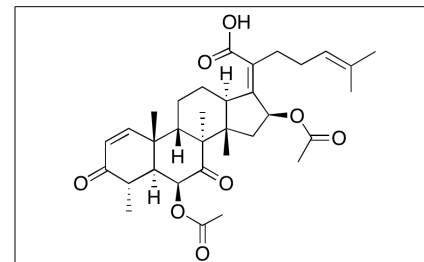
Purity ≥99%

Solubility Soluble in DMSO, acetone or chloroform. Insoluble in water.

Store Temp -20°C

Ship Temp Ambient

Description Helvolic acid is a well-known fungal metabolite that inhibits protein synthesis through elongation factor G on the bacterial ribosome. It has shown in vitro antitrypanosomal activity against *Trypanosoma brucei brucei* GUTat3.1 with IC₅₀ value of 5.08 µg/mL. Helvolic acid has also been found to be weakly cytotoxic against normal human diploid fibroblasts with IC₅₀ value of >100 µg/mL. Furthermore, Helvolic acid has shown to exhibit strong antibacterial activities against two gram-positive bacteria: *B. subtilis* and methicillin-resistant *Staphylococcus aureus*.



Bulk quantities available upon request

Product ID	Size
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H174466	1 mg
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H174466	5 mg
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H174466	10 mg
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References Ganaha M, Yoshii K, Otsuki Y, et al. In vitro antitrypanosomal activity of the secondary metabolites from the mutant strain IU-3 of the insect pathogenic fungus *Ophiocordyceps coccidiicola* NBRC 100683. *Chem Pharm Bull (Tokyo)*. 2016;64(7):988-990. PMID: 27373660.

Jayanetti DR, Yue Q, Bills GF, et al. Hypocoprins A-C: new sesquiterpenoids from the coprophilous fungus *Hypocopra rostrata*. *J Nat Prod*. 2015 Mar 27;78(3):396-401. PMID: 25549014.

Ratnaweera PB, Williams DE, de Silva ED, et al. Helvolic acid, an antibacterial nortriterpenoid from the fungal endophyte, *Xylaria* sp. of orchid *Anoectochilus setaceus* endemic to Sri Lanka. *Mycology*. 2014 Mar;5(1):23-28. PMID: 24772371.

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