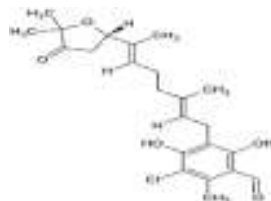


Ascofuranone

ALTERNATE NAME: 5-chloro-3-[(2E,6E)-7-[(2S)-5,5-dimethyl-4-oxo-tetrahydrofuran-2-yl]-3-methyl-octa-2,6-dienyl]-2,4-dihydroxy-6-methyl-benzaldehyde

CATALOG #: B3223-1000 1 mg
B3223-250 250 µg

STRUCTURE:



MOLECULAR FORMULA: C₂₃H₂₉ClO₅

MOLECULAR WEIGHT: 420.93

CAS NUMBER: 38462-04-3

APPEARANCE: Crystalline solid

PURITY: ≥98%

SOLUBILITY: DMSO

DESCRIPTION: Ascofuranone, a compound isolated from the phytopathogenic fungus, *Ascochyta visiae*, acts as a potent inhibitor of trypanosome alternative oxidase (TAO). (TAO) is the terminal oxidase of the respiratory chain of long slender bloodstream forms of the African trypanosome, which causes sleeping sickness in human and nagana in cattle. Ascofuranone also suppresses EGF-induced HIF-1α protein translation through the inhibition of Akt/mTOR/p70S6 kinase signaling pathways and plays a novel role in the anti-angiogenic action.

STORAGE TEMPERATURE: -20°C. Protect from light

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Caspofungin acetate (B2584)
Natamycin (B2685)
Nystatin, USP (B1509)
(R,R)-Hymeglusin (B1244)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*