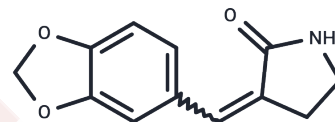


Heat Shock Protein Inhibitor II

Chemical Properties

CAS No. : 1859-42-3
 Formula: C₁₂H₁₁NO₃
 Molecular Weight: 217.22
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Heat shock protein (Hsp) inhibitor II is the active form of Hsp inhibitor I and a benzylidene lactam compound that prevents the synthesis of inducible Hsps, such as Hsp105, Hsp72, and Hsp40. Hsp inhibitor II decreases Hsp72 synthesis in vivo and reduces thermotolerance of tumors in SCC VII tumor-containing mice. At 100 μM, it inhibits the development of thermotolerance in COLO 320 DM cells. Inhibition of Hsp70 with Hsp inhibitor II in combination with amphotericin B increases susceptibility of AmB-susceptible (MICs = 0.058 versus 0.27 μg/ml for combined and AmB alone, respectively) and AmB-resistant (MICs = 21.33 versus >32 μg/ml for combined and AmB alone, respectively) strains of <i>A. fumigatus</i> .
Targets(IC50)	Others,HSP

Solubility Information

Solubility	DMSO: 10 mg/mL (46.04 mM),Sonication is recommended. DMF: 10 mg/mL (46.04 mM),Sonication is recommended. DMSO:PBS (pH 7.2)(1:5): 0.1 mg/mL (0.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6036 mL	23.0181 mL	46.0363 mL
5 mM	0.9207 mL	4.6036 mL	9.2073 mL
10 mM	0.4604 mL	2.3018 mL	4.6036 mL
50 mM	0.0921 mL	0.4604 mL	0.9207 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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