

AEG 3482

Chemical Properties

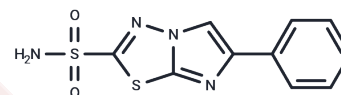
CAS No. : 63735-71-7

Formula: C₁₀H₈N₄O₂S₂

Molecular Weight: 280.33

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	AEG 3482 is a potent antiapoptotic compound. AEG 3482 inhibits Jun kinase (JNK) activity through induced expression of heat shock protein 70 (HSP70). AEG 3482 directly binds HSP90, thereby facilitating HSF1-dependent expression of HSP70 and HSP25.
Targets(IC50)	Apoptosis,JNK
In vitro	AEG 3482 (0.3-30 μM; 2 d) inhibits nerve growth factor (NGF) withdrawal-induced death in SCG neurons, with an EC50 of 20 μM. AEG 3482 (10-40 μM; 30 h) inhibits p75NTR- and NRAGE-mediated JNK activation in PC12 cells. AEG 3482 (1-80 μM; 40 h) inhibits p75NTR- and NRAGE- mediated apoptosis of PC12 cells in a dose-dependent manner[1].

Solubility Information

Solubility	DMSO: 200 mg/mL (713.44 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (17.84 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5672 mL	17.8361 mL	35.6722 mL
5 mM	0.7134 mL	3.5672 mL	7.1344 mL
10 mM	0.3567 mL	1.7836 mL	3.5672 mL
50 mM	0.0713 mL	0.3567 mL	0.7134 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.

Reference

Salehi AH, et, al. AEG3482 is an antiapoptotic compound that inhibits Jun kinase activity and cell death through induced expression of heat shock protein 70. Chem Biol. 2006 Feb;13(2):213-23.

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