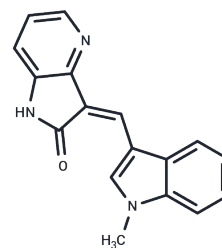


GW 441756

Chemical Properties

CAS No. : 504433-23-2
 Formula: C₁₇H₁₃N₃O
 Molecular Weight: 275.3
 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	GW 441756 is a specific Tropomyosin-related kinase A (TrkA) inhibitor with an IC ₅₀ value of 2 nM.
Targets(IC ₅₀)	Apoptosis,Raf,CDK,Trk receptor
In vivo	GW441756 inhibits γH2AX production mediated by TrkA and apoptosis in cells overexpressing TrkA. It specifically blocks TrkA-induced cell death in a dose-dependent manner.

Solubility Information

Solubility	DMSO: 25 mg/mL (90.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn oil: < 2.5 mg/mL (9.08 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4.17 mg/mL (15.15 mM),Suspension. 10% DMSO+90% Saline: < 2.5 mg/mL (9.08 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 2.5 mg/mL (9.08 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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	3.6324 mL	18.162 mL	36.324 mL
5 mM	0.7265 mL	3.6324 mL	7.2648 mL
10 mM	0.3632 mL	1.8162 mL	3.6324 mL
50 mM	0.0726 mL	0.3632 mL	0.7265 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

Wood ER, et al. Bioorg Med Chem Lett, 2004, 14(4), 953-957.

Eun Joo Jung, et al. Exp Mol Med, 2008, 40(3), 276-285.

Jung EJ, et al. Mol Cells, 2008, 26(1), 12-17.

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