

CK-666

Chemical Properties

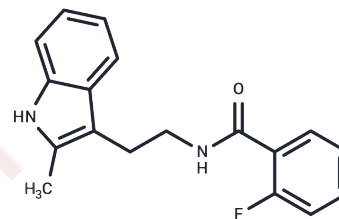
CAS No. : 442633-00-3

Formula: C₁₈H₁₇N₂O

Molecular Weight: 296.34

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	CK-666 is a cell-permeable inhibitor of the actin-related protein Arp2/3 complex, binding to and stabilizing its inactive state, thereby preventing the movement of the Arp2 and Arp3 subunits into the activated filament-like (short pitch) configuration.
Targets(IC50)	HIV Protease, Microtubule Associated, Arp2/3 Complex

Solubility Information

Solubility	DMSO: 120 mg/mL (404.94 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: 10 mg/mL (33.75 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	3.3745 mL	16.8725 mL	33.745 mL
5 mM	0.6749 mL	3.3745 mL	6.749 mL
10 mM	0.3375 mL	1.6873 mL	3.3745 mL
50 mM	0.0675 mL	0.3375 mL	0.6749 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

Hetrick B, et al. Small molecules CK-666 and CK-869 inhibit actin-related protein 2/3 complex by blocking an activating conformational change. Chem Biol. 2013 May 23;20(5):701-12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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