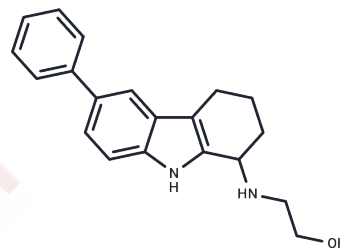


CASIN

Chemical Properties

CAS No. : 425399-05-9
 Formula: C₂₀H₂₂N₂O
 Molecular Weight: 306.4
 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	CASIN (Pirl1-related Compound 2) is a specific inhibitor of GTPase Cdc42 (IC ₅₀ : 2 μM).
Targets(IC ₅₀)	Apoptosis,CDK,STAT,Ras
In vitro	CASIN (5 μM) could reduce the elevated level of active Cdc42 in aged primitive hematopoietic cells to the level in young cells.
In vivo	CASIN can reverse the aging-related and polarity phenotype of aged HSCs to that of young HSCs.

Solubility Information

Solubility	DMSO: 55 mg/mL (179.5 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: 2 mg/mL (6.53 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	3.2637 mL	16.3185 mL	32.6371 mL
5 mM	0.6527 mL	3.2637 mL	6.5274 mL
10 mM	0.3264 mL	1.6319 mL	3.2637 mL
50 mM	0.0653 mL	0.3264 mL	0.6527 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

Li Y, et al. Suppression of cancer relapse and metastasis by inhibiting cancer stemness. Proc Natl Acad Sci U S A. 2015 Feb 10;112(6):1839-44.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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