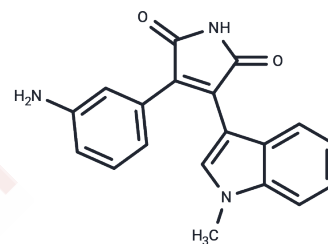


CP21R7

Chemical Properties

CAS No. : 125314-13-8
 Formula: C₁₉H₁₅N₃O₂
 Molecular Weight: 317.34
 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	CP21R7 (CP21) is an effective and specific GSK3β inhibitor. It is used as an activator of stem cells prior to the induction of differentiation of stem cells to smooth muscle and endothelial cells. CP21R7 can be combined with BMP4 to commit human pluripotent stem cells to a mesodermal fate.
Targets(IC50)	GSK-3,PKC

Solubility Information

Solubility	Ethanol: 1 mg/mL (3.15 mM),Sonication is recommended. DMSO: 59 mg/mL (185.92 mM),Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (6.3 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	3.1512 mL	15.756 mL	31.5119 mL
5 mM	0.6302 mL	3.1512 mL	6.3024 mL
10 mM	0.3151 mL	1.5756 mL	3.1512 mL
50 mM	0.063 mL	0.3151 mL	0.6302 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

- Gong L, et al. Bioorg Med Chem Lett. 2010 Mar 1;20(5):1693-6.
- Sahara M, et al. Cell Res. 2015 Jan;25(1):148.
- Patsch C, et al. Nat Cell Biol. 2015 Aug;17(8):1994-12003.
- Sahara M, et al. Cell Res. 2014 Jul;24(7):820-41.

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