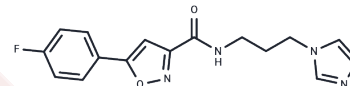


Wnt/ $\beta$ -catenin agonist 4

## Chemical Properties

CAS No. :	912784-79-3
Formula:	C <sub>16</sub> H <sub>15</sub> FN <sub>4</sub> O <sub>2</sub>
Molecular Weight:	314.31
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	Wnt/ $\beta$ -catenin agonist 4 is an agonist of Wnt that activates Wnt/ $\beta$ -catenin signaling and directs signaling.
Targets(IC50)	Wnt/beta-catenin
In vitro	Wnt/ $\beta$ -catenin agonist 4, identified also as Derivative 83, demonstrates significant biological activity by enhancing ALP (alkaline phosphatase) activity by 2848% during the differentiation of the ST2 cell line into osteoblasts at a concentration of 11 $\mu$ M over 4 days. Additionally, at a concentration of 120 $\mu$ M for 24 hours, it exhibits a 1049% increase in $\beta$ -catenin activity in HEK293 and SW480 cells. [1]

## Solubility Information

Solubility	DMSO: 125 mg/mL (397.7 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 (31.82 mM), Solution. <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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.1816 mL	15.9079 mL	31.8157 mL
5 mM	0.6363 mL	3.1816 mL	6.3631 mL
10 mM	0.3182 mL	1.5908 mL	3.1816 mL
50 mM	0.0636 mL	0.3182 mL	0.6363 mL

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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

Jeong Woo Cho, et al. Isoxazole derivatives and use thereof. WO2007078113A1.

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