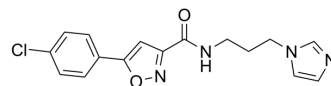


Wnt/ β -catenin agonist 3

Cat. No.:	HY-148055
CAS No.:	912790-59-1
Molecular Formula:	C ₁₆ H ₁₅ ClN ₄ O ₂
Molecular Weight:	330.77
Target:	β -catenin
Pathway:	Stem Cell/Wnt
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (377.91 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	3.0232 mL	15.1162 mL	30.2325 mL
				5 mM	0.6046 mL	3.0232 mL	6.0465 mL
				10 mM	0.3023 mL	1.5116 mL	3.0232 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: \geq 2.08 mg/mL (6.29 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline) Solubility: \geq 2.08 mg/mL (6.29 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: \geq 2.08 mg/mL (6.29 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	Wnt/ β -catenin agonist 3 (compound 98) is a Wnt/ β -catenin signalling pathway agonist. Wnt/ β -catenin agonist 3 can be used for the research of osteoporosis ^[1] .
In Vitro	Wnt/ β -catenin agonist 3 (compound 98; 24 h; HEK293 and SW480 cells) has 54% cell activity at 120 μ M concentration compared with the positive control group LiCl (20mM) ^[1] . Wnt/ β -catenin agonist 3 (30 and 60 μ M; 24 h; HEK293 cells) is an activator for β -Catenin and deposits β -catenin ^[1] . Wnt/ β -catenin agonist 3 (11 μ M; 4 d) induces differentiation of ST2 cell line into osteoblasts and calcium deposition ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]

Cell Line:	HEK293 cells
Concentration:	30 and 60 μ M
Incubation Time:	24 hours
Result:	Deposited β -catenin in a dose-dependent pattern within cells.

REFERENCES

[1]. Cho JW, et al. Isoxazole derivatives and use thereof. WO2007078113A1.

Caution: Product has not been fully validated for medical applications. For research use only.

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