Adavivint

Cat. No.:	HY-109049			
CAS No.:	1467093-03-3			
Molecular Formula:	C ₂₉ H ₂₄ FN ₇ O			
Molecular Weight:	505.55			
Target:	Wnt			
Pathway:	Stem Cell/Wnt			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (49.45 mM; Need ultrasonic and warming) H ₂ O : 1 mg/mL (1.98 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	1.9780 mL	9.8902 mL	19.7804 mL	
		5 mM	0.3956 mL	1.9780 mL	3.9561 mL	
		10 mM	0.1978 mL	0.9890 mL	1.9780 mL	
	Please refer to the so	lubility information to select the app	propriate solvent.			
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.95 mM); Clear solution 					

Description	Adavivint (SM04690; Lorecivivint) is a potent and selective inhibitor of canonical Wnt signaling, with an EC ₅₀ of 19.5 nM via a high-throughput TCF/LEF-reporter assay in SW480 colon cancer cells ^[1] .			
IC ₅₀ & Target	EC50: 19.5 nM (Wnt, SW480 cell) ^[1]			
In Vitro	Adavivint (SM04690) is a potent and selective inhibitor of Wnt signaling, with an EC ₅₀ of 19.5 nM via a high-throughput			

Product Data Sheet

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	TCF/LEF-reporter assay in SW480 colon cancer cells, and shows no effect on SV40 luciferase reporter. Adavivint enhances aggregation of human mesenchymal stem cells (hMSCs) with an EC ₅₀ of 10 nM. Adavivint (30 nM) protects chondrocytes from catabolic breakdown in vitro ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Adavivint (0.3 μg) enhances cartilage repair and protection in the rat acute cruciate ligament tear and partial medial meniscectomy osteoarthritis (ACLT + pMMx OA) model ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Med Chem. 2023 Mar 6.
- Cell Oncol. 2022 Oct 21.
- Mol Carcinog. 2022 Oct 12.
- Bone. 2022 Feb 23;116372.
- Osteoarthr Cartil Open. 2023 May 12, 100369.

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REFERENCES

[1]. Deshmukh V, et al. A small-molecule inhibitor of the Wnt pathway (SM04690) as a potential disease modifying agent for the treatment of osteoarthritis of the knee. Osteoarthritis Cartilage. 2018 Jan;26(1):18-27.

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

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