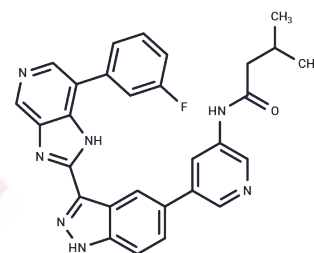


Adavivint

Chemical Properties

CAS No. :	1467093-03-3
Formula:	C ₂₉ H ₂₄ FN ₇ O
Molecular Weight:	505.55
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	Adavivint (SM04690) is a selective inhibitor of the typical Wnt signaling pathway. In SW480 cells, EC ₅₀ =19.5 nM was measured using high-throughput TCF/LEF reporter gene experiments.
Targets(IC ₅₀)	Wnt/beta-catenin
In vivo	Adavivint (SM04690) is a novel Wnt pathway inhibitor, for the treatment of moderate to severe osteoarthritis of the knee.
Animal Research	A high-throughput screen was performed using a cell-based reporter assay for Wnt pathway activity to develop a small molecule designated SM04690. Its properties were evaluated in bone-marrow-derived human mesenchymal stem cells (hMSCs) to assess chondrocyte differentiation and effects on cartilage catabolism by immunocytochemistry and gene expression, and glycosaminoglycan breakdown. In vivo effects of SM04690 on Wnt signaling, cartilage regeneration and protection were measured using biochemical and histopathological techniques in a rodent acute cruciate ligament tear and partial medial meniscectomy (ACLT + pMMx) OA model.

Solubility Information

Solubility	DMSO: 16.25 mg/mL (32.14 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 (3.96 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	1.978 mL	9.8902 mL	19.7804 mL
5 mM	0.3956 mL	1.978 mL	3.9561 mL
10 mM	0.1978 mL	0.989 mL	1.978 mL
50 mM	0.0396 mL	0.1978 mL	0.3956 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

Yazici Y , Mcalindon T E , Fleischmann R , et al. A novel Wnt pathway inhibitor, SM04690, for the treatment of moderate to severe osteoarthritis of the knee: results of a 24-week, randomized, controlled, phase 1 study[J]. *Osteoarthritis & Cartilage*, 2017, 25(10):1598.

Wang C, Wang T, He Q, et al. Inhibition of the canonical Wnt/ β -catenin pathway interferes with macropinocytosis to suppress pseudorabies virus proliferation. *Veterinary Microbiology*. 2025: 110373.

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