

Product Datasheet

Adavivint

Catalog No. **BP-01894** · CAS **1467093-03-3** · Form **free base** · Physical state **solid** · Color **Light yellow to gray** · Version **1.0** · Revision **2026-09-04**

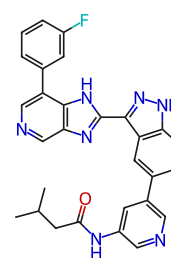
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Target Wnt	Research area Inflammation/Immunology; Cancer
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Molecular formula **C₂₉H₂₄FN₇O**

Molecular weight **505.5456**

STRUCTURE



DESCRIPTION

Adavivint (SM04690; Lorecivivint) is a potent and selective inhibitor of canonical Wnt signaling, with an EC₅₀ of 19.5 nM via a high-throughput TCF/LEF-reporter assay in SW480 colon cancer cells.

BIOLOGICAL ACTIVITY

In Vitro

Adavivint (SM04690) is a potent and selective inhibitor of Wnt signaling, with an EC₅₀ of 19.5 nM via a high-throughput 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 EC₅₀ of 10 nM. Adavivint (30 nM) protects chondrocytes from catabolic breakdown in vitro.

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.

SOLUBILITY

Soluble in DMSO

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. doi: 10.1016/j.joca.2017.08.015. Epub 2017 Sep 6. PubMed PMID: 28888902.
- [2]. Yazici Y, 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. Osteoarthritis Cartilage. 2017

Oct;25(10):1598-1606. doi:10.1016/j.joca.2017.07.006. Epub 2017 Jul 13. PubMed PMID: 28711582.

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Lot CoA and SDS are separate documents.