

Product Datasheet

LRH-1 modulator-1

Catalog No. **BP-02170** · CAS **2244781-29-9** · Form **free base** · Physical state **other** · Color **Colorless to light yellow** · Version **1.0** · Revision **2026-09-04**

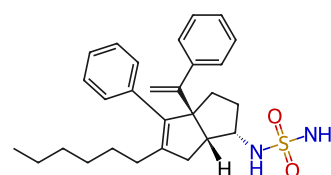
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Target Orphan Nuclear Receptor; Interleukin Related	Research area Inflammation/Immunology
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Molecular formula **C₂₈H₃₆N₂O₂S**

Molecular weight **464.6630**

STRUCTURE



DESCRIPTION

LRH-1 agonist-2 (Compound 6N) is a selective, full LRH-1 agonist with an EC₅₀ of 15.7 nM. LRH-1 agonist-2 directly interacts with the Thr352 and His390 residues in the LRH-1 binding pocket, promotes allosteric signaling to the activation function surface (AFS), stabilizes the AFS and enhances coactivator recruitment. LRH-1 agonist-2 induces the anti-inflammatory cytokine IL-10, and reduces the pro-inflammatory cytokines IL-1β and TNFα. LRH-1 modulator-1 exerts anti-inflammatory effects in intestinal organoids. LRH-1 modulator-1 can be used in studies related to inflammatory bowel disease.

BIOLOGICAL ACTIVITY

In Vitro

LRH-1 modulator-1 potently activates the transcriptional activity of LRH-1 in Hela cells with an EC₅₀ of 15.7 nM, and this activity depends on the interaction with LRH-1 residues Thr352 and His390.

SOLUBILITY

Soluble in DMSO : 66.67 mg/mL

REFERENCES

[1]. Mays SG, et al. Development of the First Low Nanomolar Liver Receptor Homolog-1 Agonist through Structure-guided Design. J Med Chem. 2019;62(24):11022-11034.

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