Proteins



IMB-808

Cat. No.: HY-123148 CAS No.: 870768-70-0 Molecular Formula: $C_{18}H_{15}F_3N_2O_4$ Molecular Weight: 380.32

LXR Target:

Pathway: Metabolic Enzyme/Protease; Vitamin D Related/Nuclear Receptor

Storage: Powder -20°C 3 years

In solvent -80°C 6 months -20°C 1 month

Product Data Sheet

SOLVENT & SOLUBILITY

In Vitro

DMSO: 250 mg/mL (657.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	2.6294 mL	13.1468 mL	26.2936 mL
	5 mM	0.5259 mL	2.6294 mL	5.2587 mL
	10 mM	0.2629 mL	1.3147 mL	2.6294 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

IMB-808 is a potent LXR α/β dual agonist with EC₅₀ values of 0.53 μ M and 0.15 μ M (0.15 μ M, using GAL4-pGL4-luc reporter Description plasmid) for LXRβ and LXRα, respectively. IMB-808 promotes expression of genes related to reverse cholesterol transport (ABCA1 and ABCG1). IMB-808 can be used as a promising agent for the prospective treatment of atherosclerosis research^[1].

In Vitro IMB-808 (0.001 μM-30 μM) significantly dose-dependently induces LXRβ activation under the concentrations ranged from 0.001 μM to 30 μM, with an EC₅₀ of 0.53 μM. In a luciferase reporter assay IMB-808 using GAL4-pGL4-luc reporter plasmid,

IMB-808 also could dose-dependently active LXR α with a lower EC₅₀ of 0.15 μ M^[1].

IMB-808 (0 μ M-10 μ M; 18 hours) significantly increases protein and mRNA levels of ABCG1 as well as ABCA1 in RAW264.7 macrophages^[1].

IMB-808 (0.1 μ M, 0.3 μ M, 1 μ M, 3 μ M, or 10 μ M; 24 hours) promotes cholesterol efflux towards ApoA-I and HDL dosedependently and reduces the cellular cholesterol concentration in these two cell lines [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

1]. Duo Lu, et al. Identification Characteristics. Mol Pharmaco		gonist that Regulates the Expres	sion of Key Cholesterol Homeostasis Genes with Distinc	t Pharmacological
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			edical applications. For research use only.	
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