

IMB-808

Chemical Properties

CAS No. : 870768-70-0

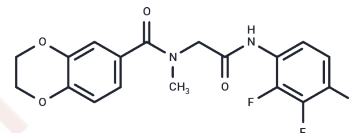
Formula: C₁₈H₁₅F₃N₂O₄

Molecular Weight: 380.32

Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	IMB-808 is an LXR α / β dual agonist that promotes ABCA1 expression and cholesterol efflux without inducing lipidogenesis in HepG2 cells. IMB-808 can be used in atherosclerosis research.
Targets(IC50)	Antibacterial, Liver X Receptor
In vitro	IMB-808 exhibited a significant dose-dependent effect in the concentration range of 0.001 μ M to 30 μ M by activating LXR β with an EC ₅₀ of 0.53 μ M. In addition, IMB-808 was able to activate LXR α in a dose-dependent manner in a luciferase reporter gene assay with the GAL4-pGL4-luc reporter plasmid with an EC ₅₀ of 0.15 μ M. M.[1] IMB-808 (0 μ M-10 μ M; 18 hours) significantly increased the protein and mRNA levels of ABCG1 and ABCA1 in RAW264.7 macrophage. [1] IMB-808 (0.1 μ M-10 μ M; 24 h) enhanced cholesterol efflux capacity in a dose-dependent manner while decreasing cellular cholesterol concentration in cell lines. [1]

Solubility Information

Solubility	DMSO: 200 mg/mL (525.87 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0526 mL	0.2629 mL	0.5259 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

Li N, et al. Identification of a Novel Liver X Receptor Agonist that Regulates the Expression of Key Cholesterol Homeostasis Genes with Distinct Pharmacological Characteristics. Mol Pharmacol. 2017 Apr;91(4):264-276.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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