

Product Data Sheet

Product Name: IMB-808
Cat. No.: GC70540

Chemical Properties

Cas. No. 870768-70-0

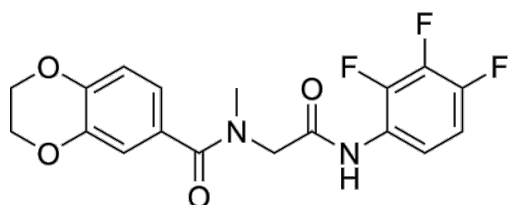
Formula $C_{18}H_{15}F_3N_2O_4$ M.Wt 380.32

Solubility DMSO : 250 mg/mL (657.34 mM; Storage
Need ultrasonic; Hygroscopic DMSO
has a significant impact on the
solubility of product, please use
newly opened DMSO)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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 plasmid) for LXR β and LXR α , 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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IMB-808 (0.001 μ M-30 μ M) significantly dose-dependently induces LXR β activation under the concentrations ranged from 0.001 μ M to 30 μ M, with an EC₅₀ of 0.53 μ M. 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 dose-dependently and reduces the cellular cholesterol concentration in these two cell lines^[1].

References:

[1]. Duo Lu, 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.

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