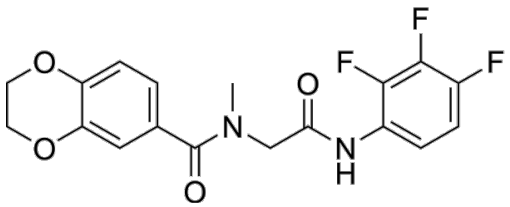
Product Data Sheet

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; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	Storage	
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 LXRα/β dual agonist with EC50 values of 0.53 μM and 0.15 μM (0.15 μM, using GAL4-pGL4-luc reporter 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.

Caution: Product has not been fully validated for medical applications. For research use only.
Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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 EC_{50} of 0.53 μM. In a luciferase reporter assay IMB-808 using GAL4-pGL4-luc reporter plasmid, IMB-808 also could dose-dependently active LXRα with a lower EC_{50} of 0.15 μM[1].

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

IMB-808 (0.1 μM, 0.3 μM, 1 μM, 3 μM, or 10 μM; 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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA