

MA-0204

Chemical Properties

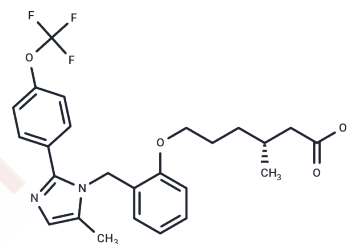
CAS No. : 2095128-17-7

Formula: C₂₅H₂₇F₃N₂O₄

Molecular Weight: 476.49

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	MA-0204 is a highly selective and orally available peroxisome proliferator-activated receptor δ (PPAR δ) modulator (EC ₅₀ s: 0.4 nM, 7.9 nM and 10 nM for human, mouse and rat PPAR δ , respectively). It is a potential treatment for Duchene Muscular Dystrophy (DMD).
Targets(IC50)	PPAR
In vitro	MA-0204 is >10,000-fold selective for activating PPAR δ over PPAR α and PPAR γ receptors. At concentrations of 1.2-12 nM, MA-0204 enhances fatty acid oxidation in muscle myoblasts from DMD patients in mice, shows high protein binding in mouse plasma, exhibits good permeability, and has low potential for efflux. [C.]
In vivo	In the muscle, PPAR δ (30, 100 mg/kg) enhances target gene transcription.

Solubility Information

Solubility	DMSO: 40 mg/mL (83.95 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.2 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0987 mL	10.4934 mL	20.9868 mL
5 mM	0.4197 mL	2.0987 mL	4.1974 mL
10 mM	0.2099 mL	1.0493 mL	2.0987 mL
50 mM	0.042 mL	0.2099 mL	0.4197 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

Lagu B, et al. Selective PPAR δ Modulators Improve Mitochondrial Function: Potential Treatment for Duchenne Muscular Dystrophy (DMD). ACS Med Chem Lett. 2018 Jul 31;9(9):935-940.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481