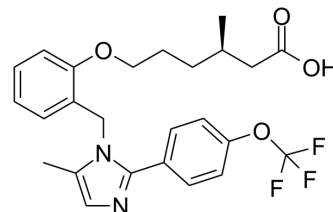


MA-0204

Cat. No.:	HY-114739		
CAS No.:	2095128-17-7		
Molecular Formula:	C ₂₅ H ₂₇ F ₃ N ₂ O ₄		
Molecular Weight:	476.49		
Target:	PPAR		
Pathway:	Cell Cycle/DNA Damage; Vitamin D Related/Nuclear Receptor		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 43.33 mg/mL (90.94 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	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	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.17 mg/mL (4.55 mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.17 mg/mL (4.55 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	MA-0204 is a potent, highly selective and orally available peroxisome proliferator activated receptor δ (PPAR δ) modulator with EC ₅₀ s of 0.4 nM, 7.9 nM and 10 nM for human, mouse and rat PPAR δ , respectively. Potential treatment for Duchene Muscular Dystrophy (DMD) ^[1] .		
IC₅₀ & Target	PPAR δ 0.4 nM (EC50, in human)	PPAR δ 7.9 nM (EC50, in mouse)	PPAR δ 10 nM (EC50, in rat)
In Vitro	MA-0204 is >10,000-fold selective for activation of PPAR δ over PPAR α and PPAR γ receptors. MA-0204 exhibits high protein binding to mouse plasma, good permeability and low potential for efflux. C ^[1] .		

	<p>MA-0204 (1.2-12 nM) improves fatty acid oxidation in DMD patient muscle myoblasts mice^[1].</p> <p>MA-0204 (0.04-40 nM) engages target gene expression in DMD patient muscle myoblasts^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
In Vivo	<p>PPARδ (30, 100 mg/kg) increases target gene transcription in the muscle^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

[1]. 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.

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

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