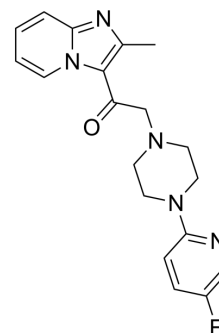


FATP1-IN-2

Cat. No.:	HY-141700		
CAS No.:	2650944-83-3		
Molecular Formula:	C ₁₉ H ₂₀ FN ₅ O		
Molecular Weight:	353.39		
Target:	FATP		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (282.97 mM; Need ultrasonic)					
		Solvent Concentration	Mass	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM		2.8297 mL	14.1487 mL	28.2973 mL
		5 mM		0.5659 mL	2.8297 mL	5.6595 mL
10 mM			0.2830 mL	1.4149 mL	2.8297 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (14.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (14.15 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (14.15 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	FATP1-IN-2 (compound 12a), an arylpiperazine derivative, is an orally active fatty acid transport protein 1 (FATP1) inhibitor (human IC ₅₀ =0.43 μM, mouse IC ₅₀ =0.39 μM) ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.43 μM (human FATP1) ^[1] . IC ₅₀ : 0.39 μM (mouse FATP1) ^[1]
In Vivo	FATP1-IN-2 (10 mg/kg; p.o.) shows a C _{max} value above the mouse IC ₅₀ value ^[1] .

FATP1-IN-2 (3, 10, 30 mg/kg; p.o.; 4 weeks) shows TG content of each tissue does not change at any dose^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice ^[1]
Dosage:	10 mg/kg
Administration:	P.o.
Result:	Showed a C _{max} value above the mouse IC ₅₀ value.

CUSTOMER VALIDATION

- Research Square Print. 2023 Jan 24.

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REFERENCES

[1]. Matsufuji T, et al. Arylpiperazines as fatty acid transport protein 1 (FATP1) inhibitors with improved potency and pharmacokinetic properties. *Bioorg Med Chem Lett.* 2013;23(9):2560-2565.

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

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