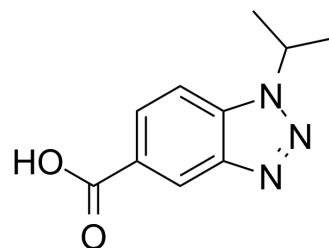


GPR109 receptor agonist-1

Cat. No.:	HY-107580		
CAS No.:	306935-41-1		
Molecular Formula:	C ₁₀ H ₁₁ N ₃ O ₂		
Molecular Weight:	205.21		
Target:	GPR109A		
Pathway:	GPCR/G Protein		
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 (487.31 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	4.8731 mL	24.3653 mL	48.7306 mL
		5 mM	0.9746 mL	4.8731 mL	9.7461 mL
10 mM		0.4873 mL	2.4365 mL	4.8731 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: ≥ 2.5 mg/mL (12.18 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (12.18 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (12.18 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	GPR109 receptor agonist-1 (Compound 3a) is a highly selective agonist of the human orphan G-protein-coupled receptor GPR109b, with the pEC ₅₀ of 6.4. GPR109 receptor agonist-1 can be used for the research of cardio-metabolic diseases ^[1] .
IC₅₀ & Target	pEC ₅₀ : 6.40 ± 0.36 (GPR109b) ^[1]

REFERENCES

[1]. Graeme Semple, et al. 1-Alkyl-benzotriazole-5-carboxylic acids are highly selective agonists of the human orphan G-protein-coupled receptor GPR109b. J Med Chem. 2006 Feb 23;49(4):1227-30.

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

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