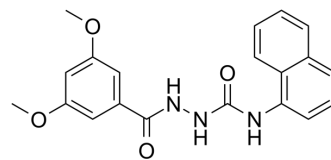


TC-O 9311

Cat. No.:	HY-101777
CAS No.:	444932-31-4
Molecular Formula:	C ₂₀ H ₁₉ N ₃ O ₄
Molecular Weight:	365.38
Target:	GPR139
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (342.11 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	2.7369 mL	13.6844 mL	27.3688 mL
		5 mM	0.5474 mL	2.7369 mL	5.4738 mL
	10 mM	0.2737 mL	1.3684 mL	2.7369 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: ≥ 2.08 mg/mL (5.69 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.69 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	TC-O 9311 is a potent orphan G protein-coupled receptor 139 (GPR139) agonist with an EC ₅₀ of 39 nM ^[1] .
IC ₅₀ & Target	EC ₅₀ : 39 nM (Orphan G protein-coupled receptor 139) ^[1]

REFERENCES

[1]. Shi F, et al. Discovery and SAR of a Series of Agonists at Orphan G Protein-Coupled Receptor 139. ACS Med Chem Lett. 2011 Feb 28;2(4):303-6.

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

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