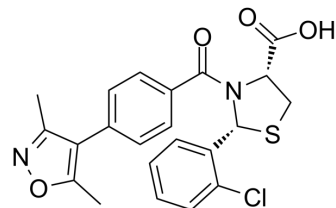


TUG-1375

Cat. No.:	HY-112813		
CAS No.:	2247372-59-2		
Molecular Formula:	C ₂₂ H ₁₉ ClN ₂ O ₄ S		
Molecular Weight:	442.92		
Target:	Others		
Pathway:	Others		
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 : 125 mg/mL (282.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2577 mL	11.2887 mL	22.5774 mL
		5 mM	0.4515 mL	2.2577 mL	4.5155 mL
10 mM		0.2258 mL	1.1289 mL	2.2577 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: ≥ 2.25 mg/mL (5.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.25 mg/mL (5.08 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.25 mg/mL (5.08 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	TUG-1375 is an agonist of free fatty acid receptor 2 (FFA2/GPR43), with a pK _i of 6.69. TUG-1375 is inactive on FFA3, FFA4, PPARα, PPARγ, PPARδ, LXRα or LXRβ ^[1] .
IC₅₀ & Target	pK _i : 6.69 (FFA2) ^[1]
In Vitro	TUG-1375 exhibits pEC ₅₀ of 7.11 in the cAMP FFA2 assay, also active on murine FFA2 orthologue (pEC ₅₀ , 6.44 ± 0.13 in the cAMP assay) ^[1] .

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Br J Pharmacol. 2022 Jan;179(1):159-178.

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REFERENCES

[1]. Hansen AH, et al. Discovery of a Potent Thiazolidine Free Fatty Acid Receptor 2 Agonist with Favorable Pharmacokinetic Properties. J Med Chem. 2018 Nov 8;61(21):9534-9550.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA