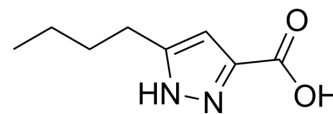


LUF6283

Cat. No.:	HY-100976
CAS No.:	92933-48-7
Molecular Formula:	C ₈ H ₁₂ N ₂ O ₂
Molecular Weight:	168.19
Target:	Hydroxycarboxylic Acid Receptor (HCAR)
Pathway:	GPCR/G Protein
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (594.57 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	5.9457 mL	29.7283 mL	59.4566 mL
		5 mM	1.1891 mL	5.9457 mL	11.8913 mL
	10 mM	0.5946 mL	2.9728 mL	5.9457 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 (14.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (14.86 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (14.86 mM); Clear solution 				

BIOLOGICAL ACTIVITY

Description	LUF6283 is a potent and orally active HCA(2) partial agonist, with a K _i of 0.55 μM. LUF6283 can achieve the beneficial lipid lowering effect of niacin without producing the unwanted cutaneous flushing side effect ^[1] .
IC₅₀ & Target	EC ₅₀ : 0.32 ± 0.06 μM (pERK1/2) ^[1]
In Vivo	LUF6283 (C57BL/6 mice, 400 mg/kg, Oral gavage, once a day for 4 weeks) has no effect on adipose tissue ATGL/HSL expression, and significantly reduces the expression of apolipoprotein B (APOB) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Li Z, et al. Effects of pyrazole partial agonists on HCA(2) -mediated flushing and VLDL-triglyceride levels in mice. Br J Pharmacol. 2012 Oct;167(4):818-25.

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

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