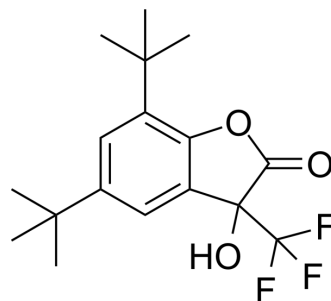


rac-BHFF

Cat. No.:	HY-103519
CAS No.:	123557-91-5
Molecular Formula:	C ₁₇ H ₂₁ F ₃ O ₃
Molecular Weight:	330.34
Target:	GABA Receptor
Pathway:	Membrane Transporter/Ion Channel; 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 : 100 mg/mL (302.72 mM); ultrasonic and warming and heat to 60°C				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0272 mL	15.1359 mL	30.2718 mL
		5 mM	0.6054 mL	3.0272 mL	6.0544 mL
		10 mM	0.3027 mL	1.5136 mL	3.0272 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: ≥ 2.5 mg/mL (7.57 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.57 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	rac-BHFF is a potent and orally active allosteric enhancer of GABA _B receptor ^[1] .	
In Vivo	rac-BHFF has anxiolytic-like properties in stress-induced hyperthermia (SIH) in mice ^[1] . rac-BHFF (3, 10, 30 and 100 mg/kg, p.o.) reverses SIH and high significance was reached for 100 mg kg ⁻¹ (P<0.001) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Male NMRI mice (20-25 g) ^[1] .

Dosage:	3, 10, 30 or 100 mg/kg.
Administration:	P.O..
Result:	Significantly increased the LRR effects of a subthreshold dose of baclofen at doses of 3 mg/kg and above.

REFERENCES

[1]. P Malherbe, et al. Characterization of (R,S)-5,7-di-tert-butyl-3-hydroxy-3-trifluoromethyl-3H-benzofuran-2-one as a positive allosteric modulator of GABAB receptors. Br J Pharmacol. 2008 Jun;154(4):797-811.

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