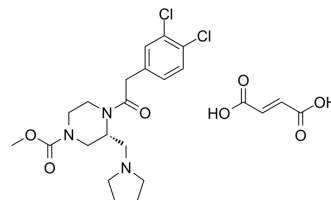


GR103545

Cat. No.:	HY-145128
CAS No.:	126766-43-6
Molecular Formula:	C ₂₃ H ₂₉ Cl ₂ N ₃ O ₇
Molecular Weight:	530.4
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (188.54 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.8854 mL	9.4268 mL	18.8537 mL
				5 mM	0.3771 mL	1.8854 mL	3.7707 mL
				10 mM	0.1885 mL	0.9427 mL	1.8854 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 (4.71 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.71 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.71 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	GR103545 is a potent and selective agonist of the κ-opioid receptor (κ-OR). ¹¹ GR103545 is a radiotracer for imaging κ-OR in vivo ^{[1][2]} .
IC ₅₀ & Target	κ-opioid receptor ^[1]

REFERENCES

[1]. Hayes AG, et, al. A series of novel, highly potent and selective agonists for the kappa-opioid receptor. Br J Pharmacol. 1990 Dec;101(4):944-8.

[2]. Talbot PS, et, al. 11C-GR103545, a radiotracer for imaging kappa-opioid receptors in vivo with PET: synthesis and evaluation in baboons. J Nucl Med. 2005 Mar;46(3):484-94.

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

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