## **GR 89696**

Cat. No.:	HY-107747				
CAS No.:	126766-32-3	3			
Molecular Formula:	C <sub>23</sub> H <sub>29</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>7</sub>				
Molecular Weight:	530.4				
Target:	Opioid Receptor				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

## SOLVENT & SOLUBILITY

		Solvent	1 mg	5 mg	10 mg			
		Concentration	Ð	- 0	0			
	Preparing Stock Solutions	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 so	Please refer to the solubility information to select the appropriate solvent.						
Vivo		t one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline ng/mL (4.71 mM); Clear solution						
Solubility: ≥ 2.5 3. Add each solver		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						
	one by one: 10% DMSO >> 90% corn oil ng/mL (4.71 mM); Clear solution							

<b>BIOLOGICAL ACTIV</b>	
Description	GR 89696 is a highly selective $\kappa$ 2 opioid receptor agonist with potential to prevent pruritus <sup>[1]</sup> .
In Vivo	GR 89696 (intramuscular injection, 0.01-0.1 μg/kg) attenuates the scratching response induced by intrathecal morphine (0.03mg) in a dose-dependent manner without affecting the analgesic effect of morphine <sup>[1]</sup> . GR-896960(subcutaneous injection, 1 mg/kg) reduces cerebral artery infarct volume by 38% in a rat model of permanent focal ischemia <sup>[2]</sup> .

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

## REFERENCES

[1]. Mei-Chuan Ko, et al. Effects of atypical kappa-opioid receptor agonists on intrathecal morphine-induced itch and analgesia in primates. J Pharmacol Exp Ther. 2009 Jan;328(1):193-200.

[2]. A Barber, et al. Effects of GR-89696 and the novel peripherally selective OP2 agonists, EMD-61569 and EMD-61747, against focal cerebral ischemia in the rat. Methods Find Exp Clin Pharmacol. 1999 Mar;21(2):105-13

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

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