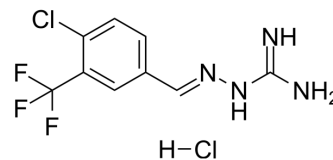


AC-099 hydrochloride

Cat. No.:	HY-154829A		
CAS No.:	849335-07-5		
Molecular Formula:	C ₉ H ₉ Cl ₂ F ₃ N ₄		
Molecular Weight:	301.1		
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 : 100 mg/mL (332.12 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.3212 mL	16.6058 mL	33.2116 mL
		5 mM	0.6642 mL	3.3212 mL	6.6423 mL
10 mM		0.3321 mL	1.6606 mL	3.3212 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 (8.30 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.30 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	AC-099 hydrochloride (compound 3) is a selective NPFF2R full agonist (EC ₅₀ =1189 nM) and NPFF1R partial agonist (EC ₅₀ =2370 nM). AC-099 hydrochloride attenuates spinal nerve ligation-induced hypersensitivity in rats ^{[1][2]} .
IC ₅₀ & Target	NPFF2R/1R ^{[1][2]} .
In Vivo	AC-099 hydrochloride (compound 3; 30 mg/kg; i.p.; single) completely attenuates spinal nerve ligation (SNL)-induced hypersensitivity in rats ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Male Sprague-Dawley rats (175-300g; spinal nerve ligation (SNL) model) ^[2] .
Dosage:	30 mg/kg
Administration:	Intraperitoneal injection; single.
Result:	Completely attenuated SNL-induced hypersensitivity.

REFERENCES

- [1]. Findeisen M, et al. Selective mode of action of guanidine-containing non-peptides at human NPFF receptors. J Med Chem. 2012 Jul 12;55(13):6124-36.
- [2]. Gaubert G, et al. Discovery of selective nonpeptidergic neuropeptide FF2 receptor agonists. J Med Chem. 2009 Nov 12;52(21):6511-4.
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Caution: Product has not been fully validated for medical applications. For research use only.

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