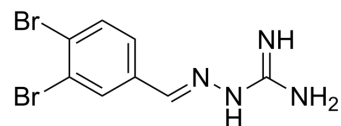


AC-263093

Cat. No.:	HY-124680		
CAS No.:	849459-86-5		
Molecular Formula:	C ₈ H ₈ Br ₂ N ₄		
Molecular Weight:	319.98		
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 : 125 mg/mL (390.65 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.1252 mL	15.6260 mL	31.2520 mL
	5 mM	0.6250 mL	3.1252 mL	6.2504 mL
	10 mM	0.3125 mL	1.5626 mL	3.1252 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. AC-263093 was dissolved in 0.2 ml DMSO and brought up to 1.0 ml with saline.

BIOLOGICAL ACTIVITY

Description

AC-263093 (AC-093) functionally activates NPFFR2 and blocks activation of NPFFR1 with pK_is of 6.9 and 7.0, respectively. AC-263093 has the potential for reversing opiate tolerance research^[1].

In Vivo

AC-263093 (10 mg/kg; i.p.) totally reverses the tolerance to Morphine Sulfate in rats^[1].

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

Animal Model:	Male Sprague-Dawley rats weighing 405±27 g ^[1]
Dosage:	10 mg/kg
Administration:	IP; single dose

Result:	Pre-treated decreased the Morphine (5 mg/kg; 7 days) analgesia scores.
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REFERENCES

- [1]. David H Malin, et al. Reversal of morphine tolerance by a compound with NPFF receptor subtype-selective actions. *Neurosci Lett.* 2015 Jan 1;584:141-5.
- [2]. David H Malin, et al. Reversal of morphine tolerance by a compound with NPFF receptor subtype-selective actions. *Neurosci Lett.* 2015 Jan 1;584:141-5.
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Caution: Product has not been fully validated for medical applications. For research use only.

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