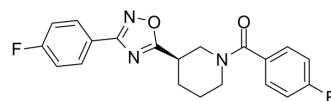


(R)-ADX-47273

Cat. No.:	HY-13058B		
CAS No.:	851881-59-9		
Molecular Formula:	C ₂₀ H ₁₇ F ₂ N ₃ O ₂		
Molecular Weight:	369.36		
Target:	mGluR		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (270.74 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	2.7074 mL	13.5369 mL
	5 mM	0.5415 mL	2.7074 mL	5.4148 mL
	10 mM	0.2707 mL	1.3537 mL	2.7074 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.77 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	(R)-ADX-47273 is a potent mGluR5 positive allosteric modulator, with an EC ₅₀ of 168 nM for potentiation .
IC₅₀ & Target	mGlu ₅ 168 nM (EC50)
In Vitro	(R)-ADX-47273 (ADX-47273 (5)) is a potent mGluR5 positive allosteric modulator with an EC ₅₀ for potentiation of 168 nM and a 9-fold shift of the glutamate response curve at 1 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Engers DW, et al. Synthesis, SAR and unanticipated pharmacological profiles of analogues of the mGluR5 ago-potentiator ADX-47273. ChemMedChem. 2009 Apr;4(4):505-11.

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