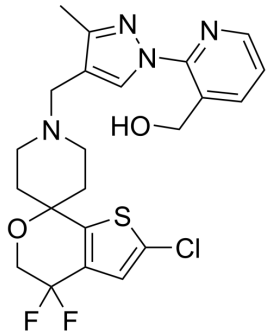
LY2940094

Cat. No.:	HY-114452
CAS No.:	1307245-86-8
Molecular Formula:	$C_{22}H_{23}ClF_2N_4O_2S$
Molecular Weight:	480.96
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (86.64 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0792 mL	10.3959 mL	20.7917 mL
	5 mM	0.4158 mL	2.0792 mL	4.1583 mL
	10 mM	0.2079 mL	1.0396 mL	2.0792 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: ≥ 2.08 mg/mL (4.32 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (4.32 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (4.32 mM); Suspended solution

BIOLOGICAL ACTIVITY

Description

LY2940094 (BTRX-246040) is a potent, selective and orally available nociceptin receptor (NOP receptor) antagonist with high affinity (K_i=0.105 nM) and antagonist potency (K_b=0.166 nM). LY2940094 reduces ethanol self-administration in animal models[1].

IC_{50} & Target

NOP Receptor/ORL1

In Vivo

LY2940094 (3, 10, or 30 mg/kg; 2-3 mL/kg; orally daily; for 4 days) dose-dependently reduces homecage ethanol self-administration in Indiana Alcohol-Preferring (P) and Marchigian Sardinian Alcohol-Preferring (msP) rats, without affecting

food/water intake or locomotor activity[1].

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

Animal Model:	Female Alcohol-Preferring (P) rats (250-320 g); Male Marchigian Sardinian Alcohol-Preferring (msP) rats (400-450 g)[1]
Dosage:	3, 10, or 30 mg/kg; 2-3 mL/kg
Administration:	Administered orally; daily; 4 days
Result:	Reduced homecage ethanol self-administration.

REFERENCES

[1]. Rorick-Kehn LM, et al. A Novel, Orally Bioavailable Nociceptin Receptor Antagonist, LY2940094, Reduces Ethanol Self-Administration and Ethanol Seeking in Animal Models. Alcohol Clin Exp Res. 2016 May;40(5):945-54.

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