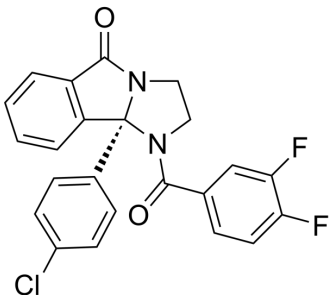
(R)-ML375

Cat. No.:	HY-12567A
CAS No.:	1488362-56-6
Molecular Formula:	$C_{23}H_{15}ClF_2N_2O_2$
Molecular Weight:	424.83
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 (235.39 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.3539 mL	11.7694 mL	23.5388 mL
	5 mM	0.4708 mL	2.3539 mL	4.7078 mL
	10 mM	0.2354 mL	1.1769 mL	2.3539 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 (5.88 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: 2.5 mg/mL (5.88 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(R)-ML375 ((R)-VU0483253) is an enantiomer of ML375 (HY-12567). (R)-ML375 is devoid of M_5 mAChR activity (hM_5, IC_{50}>30 μM)[1].

REFERENCES

[1]. Patrick R Gentry, et al. Discovery of the first M5-selective and CNS penetrant negative allosteric modulator (NAM) of a muscarinic acetylcholine receptor: (S)-9b-(4-chlorophenyl)-1-(3,4-difluorobenzoyl)-2,3-dihydro-1H-imidazo[2,1-a]isoindol-5(9bH)-one (ML375). J Med Chem. 2013 Nov 27;56(22):9351-5.

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