(S)-ZINC-3573

Cat. No.: HY-115682

CAS No.: 2095596-11-3

Molecular Formula: $C_{18}H_{21}N_5$

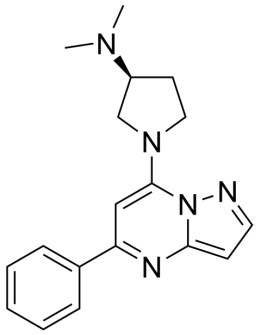
Molecular Weight: 307.39

Target: Mas-related G-protein-coupled Receptor (MRGPR)

Pathway: GPCR/G Protein

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 : 50 mg/mL (162.66 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.2532 mL	16.2660 mL	32.5320 mL
5 mM	0.6506 mL	3.2532 mL	6.5064 mL
10 mM	0.3253 mL	1.6266 mL	3.2532 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: ≥ 0.83 mg/mL (2.70 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 0.83 mg/mL (2.70 mM); Suspended solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

(S)-ZINC-3573 is an inactive enantiomer of ZINC-3573. (R)-ZINC-3573 is a selective MRGPRX2 agonist. (S)-ZINC-3573 and (R)-ZINC3573 are effective and internally controlled probe-pairs for investigating the biology of primate-exclusive receptor[1].

In Vitro

(S)-ZINC-3573 displays no activity on MRGPRX2 at concentrations below 100 μM[1].

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

In Vivo

(R)-ZINC-3573□□□□

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

REFERENCES

[1]. Katherine Lansu, et al. In silico design of novel probes for the atypical opioid receptor MRGPRX2. Nat Chem Biol. 2017 May;13(5):529-536.

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