CB-7921220

Cat. No.: HY-101862

CAS No.: 115453-99-1

Molecular Formula: $C_{14}H_{12}N_2O_2$

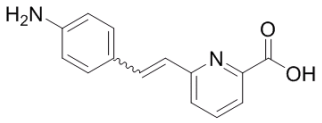
Molecular Weight: 240.26

Target: Adenylate Cyclase

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 (208.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	4.1622 mL	20.8108 mL	41.6216 mL
	5 mM	0.8324 mL	4.1622 mL	8.3243 mL
	10 mM	0.4162 mL	2.0811 mL	4.1622 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 (10.41 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CB-7921220 is an adenylate cyclase inhibitor.

In Vitro

CB-7921220 shows a degree of isoform selectivity for adenylate cyclase (AC) 1, but cannot distinguish between AC1 and AC6. CB-7921220 has a more consistent predicted binding position in the two virtual docking screens, and has a binding conformation similar to ATP and P-site inhibitors, which may explain its lack of selectivity between AC1 and AC6[1].

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

REFERENCES

[1]. Brand CS, et al. Isoform selectivity of adenylyl cyclase inhibitors: characterization of known and novel compounds. J Pharmacol Exp Ther. 2013 Nov;347(2):265-75.

Caution: Product has not been fully validated for medical applications. For research use only.

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