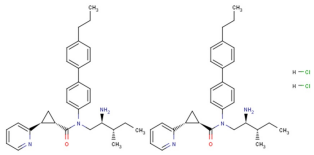
Data Sheet (Cat.No.T10078)

TargetMol
A DRUG SCREENING EXPERT

2-PCCA hydrochloride

Chemical Properties



CAS No.:	T10078
Formula:	C30H38ClN3O
Molecular Weight:	492.1
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	2-PCCA hydrochloride is an agonist of GPR88 receptor. It inhibits GPR88-mediated cAMP production (EC50: 116 nM in HEK293 cells).
Targets(IC_{50})	Others: None
In vitro	2-PCCA inhibits GPR88-mediated cAMP production through a Gαi-coupled pathway, with an EC50 of 116 nM in HEK293 cells stably expressing the GloSensor-22F cAMP construct and the human GPR88 receptor [2].
In vivo	2-PCCA combined with 1.0 mg/kg methamphetamine also dose-dependently reduces methamphetamine-induced hyperactivity. 2-PCCA (1-3.2 mg/kg, i.p.) alone does not produce methamphetamine-like discriminative stimulus effects or alter the discriminative stimulus effects of methamphetamine when studied in combination. 2-PCCA (0.1-3.2 mg/kg, i.p.) decreases the locomotor activity in rats in a dose-dependent manner in rats [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.032 mL	10.161 mL	20.321 mL
5 mM	0.406 mL	2.032 mL	4.064 mL
10 mM	0.203 mL	1.016 mL	2.032 mL
50 mM	0.041 mL	0.203 mL	0.406 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Li JX, et al. The GPR88 receptor agonist 2-PCCA does not alter the behavioral effects of methamphetamine in rats. Eur J Pharmacol. 2013 Jan 5;698(1-3):272-7.

2. Jin C, et al. Effect of Substitution on the Aniline Moiety of the GPR88 Agonist 2-PCCA: Synthesis, Structure-Activity Relationships, and Molecular Modeling Studies. ACS Chem Neurosci. 2016 Oct 19;7(10):1418-1432.

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