

## (1S,2R)-2-PCCA

## Chemical Properties

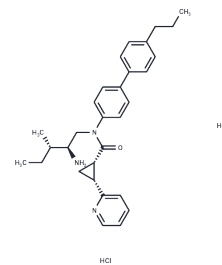
CAS No. :

Formula: C<sub>30</sub>H<sub>39</sub>Cl<sub>2</sub>N<sub>3</sub>O

Molecular Weight: 528.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	(1S,2R)-2-PCCA is a novel and potent small molecule GPR88 receptor agonist with an EC <sub>50</sub> value of 3 nM in the non-cellular system and 603 nM in the cellular system.
Targets(IC <sub>50</sub> )	GPCR
In vitro	(1R,2R)-2-PCCA (Example 3) is a potent GPR88 receptor agonist, with an EC <sub>50</sub> of 3 nM in cell-free assay and 603 nM in cell assay[1][2]. In HEK293 cells stably expressing the human GPR88 receptor and the GloSensor-22F cAMP construct, (1R,2R)-2-PCCA inhibits GPR88-mediated cAMP production through a G <sub>αi</sub> -coupled pathway, with an EC <sub>50</sub> of 56 nM[2].

## Solubility Information

Solubility	DMSO: 55 mg/mL (104.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8919 mL	9.4597 mL	18.9193 mL
5 mM	0.3784 mL	1.8919 mL	3.7839 mL
10 mM	0.1892 mL	0.946 mL	1.8919 mL
50 mM	0.0378 mL	0.1892 mL	0.3784 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Bi, Yingzhi, et al. Modulators of G Protein-Coupled Receptor 88. US 20110251204 A1.

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.

Jin C, et al. Synthesis, pharmacological characterization, and structure-activity relationship studies of small molecular agonists for the orphan GPR88 receptor. ACS Chem Neurosci. 2014 Jul 16;5(7):576-87.

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