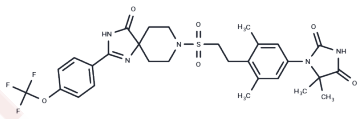
Data Sheet (Cat.No.T16442)

PCO371

Chemical Properties



CAS No. :	1613373-33-3
Formula:	C29H32F3N5O6S
Molecular Weight:	635.65
Storage:	Keep away from direct sunlight,Store at low temperature 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	PCO371 belongs to small molecule agonists and is a full PTH1R (parathyroid hormone receptor 1) agonist with oral activity, cell permeability, and selectivity for PTH1R (no effect on PTH2R). This compound is used in research on PTH1R activation mechanisms and related signaling pathways.
Targets(IC50)	Thyroid hormone receptor(THR)
In vitro	**Methods**: The in vitro activity of PCO371 was validated using a cAMP accumulation assay in AD293 cells. Cells were incubated with various concentrations of PCO371 for 30 minutes. **Results**: PCO371 induced cAMP levels comparable to PTH, indicating that PCO371 is a full G protein agonist of PTH1R. Data were obtained from three independent experiments, each with three technical replicates, and normalized to the maximum response of PTH.[1]

Solubility Information

Solubility	DMSO: 120 mg/mL (188.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (7.87 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5732 mL	7.866 mL	15.7319 mL
5 mM	0.3146 mL	1.5732 mL	3.1464 mL
10 mM	0.1573 mL	0.7866 mL	1.5732 mL
50 mM	0.0315 mL	0.1573 mL	0.3146 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

Zhao, Li-Hua et al. Conserved class B GPCR activation by a biased intracellular agonist. Nature vol. 621,7979 (2023): 635-641.