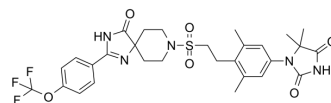


PCO371

Cat. No.:	HY-100856		
CAS No.:	1613373-33-3		
Molecular Formula:	C ₂₉ H ₃₂ F ₃ N ₅ O ₆ S		
Molecular Weight:	635.65		
Target:	Thyroid Hormone Receptor		
Pathway:	Vitamin D Related/Nuclear Receptor		
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 : 100 mg/mL (157.32 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions		10 mg	
	1 mM	1.5732 mL	7.8660 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
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: ≥ 6.25 mg/mL (9.83 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 6.25 mg/mL (9.83 mM); Clear solution			
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 6.25 mg/mL (9.83 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	PCO371 is an orally active full agonist of parathyroid hormone receptor 1 (PTH1R), with no effect on PTH type 2 receptor.
IC ₅₀ & Target	PTH1R ^[1]
In Vitro	PCO371 is an orally active full agonist of parathyroid hormone receptor 1 (PTH1R), with no effect on PTH type 2 receptor. PCO371 induces cAMP production with an EC ₅₀ of 2.4 μM in COS-7 cells expressing hPTH1R, and 2.5 μM in COS-7 cells transfected with hPTH1R-delNT, and also enhances the phospholipase C activity (EC ₅₀ , 17 μM) ^[1] .

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

REFERENCES

[1]. Tamura T, et al. Identification of an orally active small-molecule PTHR1 agonist for the treatment of hypoparathyroidism. Nat Commun. 2016 Nov 18;7:13384.

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

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