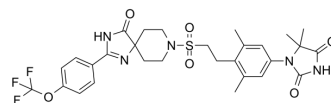


PCO371

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	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (157.32 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
	Preparing Stock Solutions	1 mM	1.5732 mL	7.8660 mL
		5 mM	0.3146 mL	1.5732 mL
		10 mM	0.1573 mL	0.7866 mL
	Please refer to the solubility information to select the appropriate solvent.			
In Vivo	<ol style="list-style-type: none"> 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 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 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.
IC₅₀ & 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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