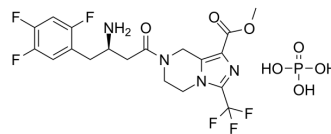


Retagliptin phosphate

Cat. No.:	HY-112668
CAS No.:	1256756-88-3
Molecular Formula:	C ₁₉ H ₂₁ F ₆ N ₄ O ₇ P
Molecular Weight:	562.36
Target:	Dipeptidyl Peptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : ≥ 150 mg/mL (266.73 mM)					
	* "≥" means soluble, but saturation unknown.					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.7782 mL	8.8911 mL	17.7822 mL
5 mM			0.3556 mL	1.7782 mL	3.5564 mL	
	10 mM		0.1778 mL	0.8891 mL	1.7782 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: ≥ 2.08 mg/mL (3.70 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Retagliptin phosphate (SP2086 phosphate) is a selective, competitive and orally active dipeptidyl peptidase-4 (DPP-4) inhibitor. Retagliptin phosphate can be used for type 2 diabetes mellitus (T2DM) research ^[1] .
IC₅₀ & Target	DPP-4 ^[1] .
In Vitro	Retagliptin is a class of compound used for research of type 2 diabetes. Retagliptin inhibits the degradation of GLP-1, thus amplifying the incretin effect ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Hu C, et al. Pharmacokinetics of Phosphate Retagliptin Tablet in Patients with Renal Dysfunction. Sichuan Da Xue Xue Bao Yi Xue Ban. 2018 Jan;49(1):74-80.
- [2]. Avivit Cahn, et al. An update on DPP-4 inhibitors in the management of type 2 diabetes. Expert Opin Emerg Drugs. 2016 Dec;21(4):409-419.
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Caution: Product has not been fully validated for medical applications. For research use only.

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