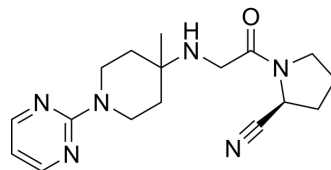


K579

Cat. No.:	HY-103433
CAS No.:	440100-64-1
Molecular Formula:	C ₁₇ H ₂₄ N ₆ O
Molecular Weight:	328.41
Target:	Dipeptidyl Peptidase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (76.12 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		3.0450 mL	15.2249 mL	30.4497 mL
		5 mM		0.6090 mL	3.0450 mL	6.0899 mL
10 mM		0.3045 mL	1.5225 mL	3.0450 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: ≥ 2.5 mg/mL (7.61 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.61 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	K579 is a potent and orally active dipeptidyl peptidase IV inhibitor. K579 inhibits the blood glucose elevation. K579 increases the plasma insulin and active forms of glucagon-like peptide-1 (GLP-1). K579 has the potential for the research of diabetic ^[1] .
IC₅₀ & Target	DPP-4

REFERENCES

[1]. Takasaki K, et al. K579, a slow-binding inhibitor of dipeptidyl peptidase IV, is a long-acting hypoglycemic agent. Eur J Pharmacol. 2004 Feb 23;486(3):335-42.

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

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