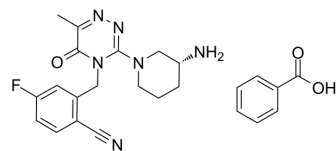


Fotagliptin benzoate

Cat. No.:	HY-123377A
CAS No.:	1403496-40-1
Molecular Formula:	C ₂₄ H ₂₅ FN ₆ O ₃
Molecular Weight:	464.49
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 : 100 mg/mL (215.29 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.1529 mL	10.7645 mL	21.5290 mL
		5 mM		0.4306 mL	2.1529 mL	4.3058 mL
	10 mM		0.2153 mL	1.0764 mL	2.1529 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 (5.38 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (5.38 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Fotagliptin benzoate is a Dipeptidyl Peptidase IV (DPP-4) inhibitor (IC ₅₀ =2.27 nM). Fotagliptin benzoate displays great security in rat and dog. Fotagliptin benzoate can be used for Type 2 diabetes mellitus research ^[1] .
IC₅₀ & Target	DPP-4 22.7 nM (IC ₅₀)
In Vivo	Fotagliptin benzoate (33 mg/kg or 110 mg/kg) is safe for rat and dog at different doses respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang Z, et al. Development and validation of a UPLC-MS/MS method for simultaneous determination of fotaliptin and its two major metabolites in human plasma and urine. *Bioanalysis*. 2017 Feb;9(4):381-393.

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

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