Evogliptin

®

MedChemExpress

Cat. No.: CAS No.:	HY-117985 1222102-29-5	
Molecular Formula: Molecular Weight:	C ₁₉ H ₂₆ F ₃ N ₃ O ₃ 401.42	
Target: Pathway:	Dipeptidyl Peptidase; Autophagy Metabolic Enzyme/Protease; Autophagy	F F F
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Description	models. Evogliptin also inhi	rally active DPP4 inhibitor with significant and sustained hypoglycaemic effects in mouse ibits the production of inflammatory and fibrotic signals in hepatocytes by inducing autophagy. rudies of type 2 diabetes, osteoporosis, renal impairment and chronic liver inflammation ^{[1][2][3][4]} .	
IC ₅₀ & Target	DPP4 ^{[1][2][3][4]} .		
In Vitro	Evogliptin (2.49 mM; 12 h) efficiently inhibits mDPP4 (membrane DPP4) enzymatic activity in PWM-induced H9 Th1 cells ^[1] Evogliptin prevents inflammatory and fibrotic signaling through autophagy induction in primary hepatocytes of ATG7 ^{f/f} -C mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]		
	Cell Line:	H9 Th1 cells (pokeweed mitogen (PWM)-induced)	
	Concentration:	2.49 mM (1 μg/mL)	
	Incubation Time:	12 h	
	Result:	Potently inhibited mDPP4 (membrane DPP4) activity in a dose-dependent manner but did not affect either the cytokine profile or cell viability in PWM-activated CD4 ⁺ CD26 ⁺ H9 Th1 cells.	
In Vivo	Evogliptin (100, 300 mg/kg; in animal feedings; single daily for 10 weeks) exhibits antidiabetic effects on HFD/STZ mice and improves glucose intolerance and insulin resistance ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Animal Model:	Male ICR mice (four-week-old; HFD/STZ mice model) ^[3] .	
	Dosage:	100, 300 mg/kg	
	Administration:	In animal feedings; single daily for 10 weeks	
	Result:	Decreased the blood glucose level from the second weekand persisted through the 10-	

Product Data Sheet

week treatment, when at 300 mg/kg.
Significantly reduced HbA1c level when dosage at 300 mg/kg.
Significantly decreased 6 h-fasted blood glucose levels in a dose-dependent manner.

REFERENCES

[1]. Yoon H, et al. Effects of the Antidiabetic Drugs Evogliptin and Sitagliptin on the Immune Function of CD26/DPP4 in Th1 Cells. Biomol Ther (Seoul). 2021 Mar 1;29(2):154-165.

[2]. Seo H Y, et al. Evogliptin Directly Inhibits Inflammatory and Fibrotic Signaling in Isolated Liver Cells. International Journal of Molecular Sciences, 2022, 23(19): 11636.

[3]. Kim TH, et al. Hepatic role in an early glucose-lowering effect by a novel dipeptidyl peptidase 4 inhibitor, evogliptin, in a rodent model of type 2 diabetes. Eur J Pharmacol. 2016 Jan 15;771:65-76.

[4]. Tan X, et al. Evogliptin: a new dipeptidyl peptidase inhibitor for the treatment of type 2 diabetes. Expert Opin Pharmacother. 2016 Jun;17(9):1285-93.

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

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