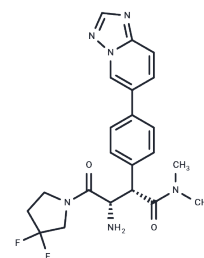


MK-0626

Chemical Properties

CAS No. :	690257-74-0
Formula:	C22H24F2N6O2
Molecular Weight:	442.46
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	MK-0626 is an orally available dipeptidyl peptidase IV (DPP-4) inhibitor that attenuates hepatic steatosis and accumulation by enhancing AMPK activity. MK-0626 attenuates TAC-induced diabetic pancreatic islet injury by restoring the expression of GLP-1R. MK-0626 is able to increase circulating endothelial progenitor cell numbers and endothelial-type nitric oxide synthase expression by promoting neoangiogenesis.
Targets(IC50)	AMPK, Glucagon Receptor
In vivo	Methods: ob/ob mice were treated with MK-0626 (1.5 and 3 mg/kg, oral), blood samples were collected, and total hepatectomy was performed. Results: MK-0626 treatment increased the mRNA expression of peroxisome proliferator-activated receptor α /microsomal triglyceride transfer protein, but decreased the mRNA expression of sterol regulatory element binding transcription factor-1c/fatty acid synthase/stearoyl-CoA desaturase-1. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2601 mL	11.3005 mL	22.6009 mL
5 mM	0.452 mL	2.2601 mL	4.5202 mL
10 mM	0.226 mL	1.130 mL	2.2601 mL
50 mM	0.0452 mL	0.226 mL	0.452 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Ohyama T, et al. MK-0626, a selective DPP-4 inhibitor, attenuates hepatic steatosis in ob/ob mice. World J Gastroenterol. 2014 Nov 21;20(43):16227-35.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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