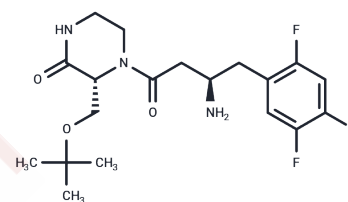


Evogliptin

Chemical Properties

CAS No. :	1222102-29-5
Formula:	C ₁₉ H ₂₆ F ₃ N ₃ O ₃
Molecular Weight:	401.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Evogliptin (DA-1229) is a DPP4 inhibitor with oral activity. Evogliptin has significant and lasting hypoglycemic effect in mouse model. Evogliptin inhibits the production of the fibrosis and inflammatory in hepatocytes signals by inducing autophagy. Evogliptin can be used to study type 2 diabetes, chronic liver inflammation, osteoporosis and renal impairment.
Targets(IC50)	Others,Proteasome,Autophagy
In vitro	Evogliptin (2.49 mM; 12 h) effectively suppresses mDPP4 (membrane DPP4) activity without impacting cytokine levels or cell viability in PWM-induced H9 Th1 cells, demonstrating selective inhibition of the enzyme. Furthermore, it mitigates inflammatory and fibrotic responses by promoting autophagy in ATG7 f/f -Cre+ mouse primary hepatocytes. This specificity and dual functionality underscore its therapeutic potential, as evidenced by cell viability assays in dose-dependent evaluations.
In vivo	Evogliptin, administered at doses of 100 and 300 mg/kg through animal feed once daily for ten weeks, has demonstrated antidiabetic effects in HFD/STZ mice by improving glucose intolerance and insulin resistance. This study involved male ICR mice, modeling HFD/STZ-induced diabetes, where evogliptin significantly reduced blood glucose levels starting from the second week, a reduction that was sustained throughout the 10-week period, especially at the 300 mg/kg dosage. Additionally, a significant decrease in HbA1c levels was observed at the 300 mg/kg dose, along with a dose-dependent reduction in 6-hour fasted blood glucose levels, showcasing its potential in diabetes management.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4912 mL	12.4558 mL	24.9116 mL
5 mM	0.4982 mL	2.4912 mL	4.9823 mL
10 mM	0.2491 mL	1.2456 mL	2.4912 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481