

Evogliptin HCl

Chemical Properties

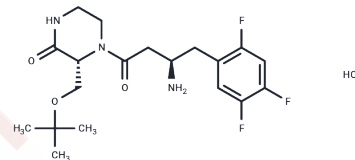
CAS No. : 1246960-27-9

Formula: C₁₉H₂₇ClF₃N₃O₃

Molecular Weight: 437.88

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 potent and selective DPP4 inhibitor (dipeptidyl peptidase 4 inhibitor) that can improve insulin resistance and delays the onset of diabetes. Evogliptin delays the onset of diabetes in young db/db mice and improves insulin sensitivity in HF mice.
Targets(IC50)	Others,Proteasome

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2837 mL	11.4187 mL	22.8373 mL
5 mM	0.4567 mL	2.2837 mL	4.5675 mL
10 mM	0.2284 mL	1.1419 mL	2.2837 mL
50 mM	0.0457 mL	0.2284 mL	0.4567 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

Jung CH, Park CY, Ahn KJ, Kim NH, Jang HC, Lee MK, Park JY, Chung CH, Min KW, Sung YA, Park JH, Kim SJ, Lee HJ, Park SW. A randomized, double-blind, placebo-controlled, phase II clinical trial to investigate the efficacy and safety of oral DA-1229 in patients with type 2 diabetes mellitus who have inadequate glycaemic control with diet and exercise. *Diabetes Metab Res Rev*. 2015 Mar;31(3):295-306. doi: 10.1002/dmrr.2613. Epub 2014 Dec 5. PubMed PMID: 25362864; PubMed Central PMCID: PMC4670720.

Gu N, Park MK, Kim TE, Bahng MY, Lim KS, Cho SH, Yoon SH, Cho JY, Jang IJ, Yu KS. Multiple-dose pharmacokinetics and pharmacodynamics of evogliptin (DA-1229), a novel dipeptidyl peptidase IV inhibitor, in healthy volunteers. *Drug Des Devel Ther*. 2014 Oct 6;8:1709-21. doi: 10.2147/DDDT.S65678. eCollection 2014. PubMed PMID: 25336915; PubMed Central PMCID: PMC4199987.

Kim DH, Lee JC, Lee MK, Kim KW, Lee MS. Treatment of autoimmune diabetes in NOD mice by Toll-like receptor 2 tolerance in conjunction with dipeptidyl peptidase 4 inhibition. *Diabetologia*. 2012 Dec;55(12):3308-17. doi: 10.1007/s00125-012-2723-x. Epub 2012 Sep 27. PubMed PMID: 23011352.

Kim TE, Lim KS, Park MK, Yoon SH, Cho JY, Shin SG, Jang IJ, Yu KS. Evaluation of the pharmacokinetics, food effect, pharmacodynamics, and tolerability of DA-1229, a dipeptidyl peptidase IV inhibitor, in healthy volunteers: first-in-human study. *Clin Ther*. 2012 Sep;34(9):1986-98. doi: 10.1016/j.clinthera.2012.08.006. Epub 2012 Sep 1. PubMed PMID: 22943970.

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