

Insulin efsitora alfa

Chemical Properties

CAS No. :	2131038-11-2
Formula:	
Molecular Weight:	32.04 kDa
Storage:	Store at low temperature -20°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Insulin efsitora alfa (LY-3209590) is a selective insulin receptor (IR) agonist and fusion protein that combines a novel single-chain insulin variant with the structural domain of human IgG Fc for the study of type 2 diabetes.
Targets(IC50)	IGF-1R
In vitro	Insulin efsitora alfa stimulated the phosphorylation of human insulin receptor isoform A (hIR-A) and human insulin receptor subtype B (hIR-B) in HEK293 cells at concentrations ranging from 0.01 to 100 nM with EC50 values of 4241 nM and 391 nM, respectively. hIR-A and hIR-B were significantly dephosphorylated when treated with 20 µM for 30 min. Insulin efsitora alfa significantly promoted the dephosphorylation of hIR-A and hIR-B when treated at a concentration of 20 µM for 30 min. In addition, Insulin efsitora alfa stimulated lipogenesis in 3T3-L1 adipocytes as well as proliferation of SAOS-2 and H4IIE cells with EC50 values of 19 nM, 134 nM and 20 nM, respectively. [1]
In vivo	In streptozotocin -treated diabetic rats, a single subcutaneous injection of Insulin efsitora alfa (3, 10, and 30 nmol/kg) significantly reduced blood glucose levels. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.0312 mL	0.1561 mL	0.3121 mL
5 mM	0.0062 mL	0.0312 mL	0.0624 mL
10 mM	0.0031 mL	0.0156 mL	0.0312 mL
50 mM	0.0006 mL	0.0031 mL	0.0062 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