Product Data Sheet

Insulin efsitora alfa

Cat. No.:	HY-P99665
CAS No.:	2131038-11-2
Target:	Insulin Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY		
In Vitro	Insulin efsitora alfa (0.01-100 nM) stimulates human insulin receptor isoform A (hIR-A) and human insulin receptor isoform B (hIR-B) phosphorylation in HEK293 cells with EC ₅₀ values of 4241 nM and 391 nM, respectively ^[2] . Insulin efsitora alfa (20 μM; 30 min) significantly promotes the dephosphorylation of hIR-A and hIR-B ^[2] . Insulin efsitora alfa stimulates the lipogenesis of 3T3-L1 adipocytes and the proliferation of SAOS-2 and H4IIE cells with EC ₅₀ values of 19 nM, 134 nM and 20 nM, respectively ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	Insulin efsitora alfa (3, 10 and 30 nmol/kg; s.c.; single dose) significantly reduces blood glucose in diabetes rats treated with Streptozotocin (HY-13753) ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Heise T, et al. Pharmacokinetic and pharmacodynamic properties of the novel basal insulin Fc (insulin efsitora alfa), an insulin fusion protein in development for onceweekly dosing for the treatment of patients with diabetes. Diabetes Obes Metab. 2023 Apr;25(4):1080-1090.

[2]. Moyers JS, et al. Preclinical Characterization of LY3209590, a Novel Weekly Basal Insulin Fc-Fusion Protein. J Pharmacol Exp Ther. 2022 Sep;382(3):346-355.

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

Fax: 609-228-5909

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA



Tel: 609-228-6898

E-mail: tech@MedChemExpress.com