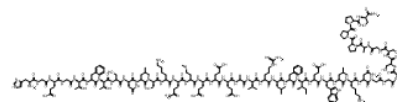


Product Name : Exenatide
Cat. No. : PC-43538
CAS No. : 141758-74-9
Molecular Formula : C₁₈₄H₂₈₂N₅₀O₆₀S
Molecular Weight : 4186.572
Target : Glucagon Receptor
Solubility :



Biological Activity

Exenatide (Exendin-4) is a 39-aa peptide, highly potent, long-acting **glucagon-like peptide-1 receptor (GLP-1)** agonist with IC₅₀ of 3.22 nM.

Exenatide (Exendin-4) significantly increases NO production, endothelial NO synthase (eNOS) phosphorylation, and GTP cyclohydrolase 1 (GTPCH1) level in a dose-dependent manner in human umbilical vein endothelial cells.

Exenatide (Exendin-4) exhibits cytotoxic effects to MCF-7 breast cancer cells with IC₅₀ of 5 μM.

Exenatide (Exendin-4) reduces serum glucose, insulin levels and calculated HOMA in ob/ob mice.

References

Eng J, et al. *J Biol Chem*. 1992 Apr 15;267(11):7402-5.

Fidan-Yaylalı G, et al. *Tumour Biol*. 2016 Feb;37(2):2647-53.

Schepp W, et al. *Eur J Pharmacol*. 1994 Oct 14;269(2):183-91.

Doyle ME, et al. *Regul Pept*. 2003 Jul 15;114(2-3):153-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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