

## Exenatide acetate

## Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: keep away from moisture  
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	Exenatide acetate is a polypeptide hormone composed of 39 amino acids. As a glucagon-like peptide-1 (GLP-1) receptor agonist with an IC50 of 3.22 nM, it is indicated for the treatment of insulinoma and type 2 diabetes. Exendin acetate promotes migration, sprouting, and nitric oxide (NO) production in human umbilical vein endothelial cells (HUVECs) in vitro. It exhibits cytotoxicity towards MCF-7 cells and provides protective effects against ischaemic injury in a mouse hindlimb model.
Targets(IC50)	Glucagon Receptor
In vivo	Exenatide acetate appears to effectively reverse hepatic steatosis in ob/ob mice by improving insulin sensitivity.

## Solubility Information

Solubility	DMSO: 40 mg/mL H2O: 20 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Ding X, et al. Exendin-4, a glucagon-like protein-1 (GLP-1) receptor agonist, reverses hepatic steatosis in ob/ob mice. *Hepatology*. 2006 Jan;43(1):173-81.

Yen-Yi Zhen , et al. Exendin-4 Protects Kidney From Acute Ischemia-Reperfusion Injury Through Upregulation of NRF2 Signaling. *Am J Transl Res*. 2017 Nov 15;9(11):4756-4771.

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