

Exendin-4

Recombinant (rExendin-4)

Expressed in *E. coli*

Cat. No. CRP08122

Lot. No. (See product label)

PRODUCT INFORMATION

Description: Exendin-4 is a novel 39-amino acid peptide isolated from the venom of the Gila monster *Heloderma suspectum*. It shares 53% sequence homology with GLP-17-36amide and interacts with the same membrane receptor. Exendin-4 enhances glucose-dependent insulin secretion, suppresses inappropriately elevated glucagon secretion, and slows gastric emptying in vivo. It also promotes β -cell proliferation and neogenesis in vitro and in animal models. Recombinant Exendin-4 is *E. coli* expression of a synthetic DNA sequence encoding the 39 amino acid of Exendin-4.

M. W. : approximately 4.1 kDa

Amino-Acid Sequence: 39aa. non-glycosylated

CAS Number: [141758-74-9](#)

Molecular Formula: C184H282N50O60S

Purity: >96% by SDS-PAGE and HPLC analyses.

Recombinant: Expressed in *E. coli*

Specific Activity: Sterile Filtered White Lyophilized (freeze-dried) powder.

Endotoxin: Less than 10EU/mg of rExendin-4 as determined by LAL method.

Formulation: Lyophilized from a 0.2mm filtered solution of 20mM PBS, pH 7.0, containing 4% mannitol.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.

FOR RESEARCH USE ONLY

REFERENCES

1. Eng, J., et al., Isolation and characterization of exendin-4 an exendin-3 analogue from *Heloderma suspectum* venom. *J. Biol. Chem.* 267, 7402, (1992)
2. Montrose-Rafizadeh, C., et al., High potency antagonists of the pancreatic glucagon-like peptide-1 receptor. *J. Biol. Chem.* 272, 21201-21206, (1997)
3. Beak, S.A., et al., Glucagon-like peptide-1 stimulates luteinizing hormone-releasing hormone secretion in a rodent hypothalamic neuronal cell line. *J. Clin. Invest.* 101, 1334-1341, (1998)

2005-2008 Creative Biolabs. All rights reserved.