

Exendin-4
Catalog # PVGS1114**Specification**

Exendin-4 - Product InformationPrimary Accession [P26349](#)**Species**

Gila monster

Sequence

His48-Ser86

Purity

> 96% as analyzed by SDS-PAGE
> 96% as analyzed by HPLC

Endotoxin Level

< 0.2 EU/ µg of protein by LAL method

Expression System

E. coli

Theoretical Molecular Weight

4.2 kDa

Formulation**Lyophilized from a 0.2 µm filtered solution
in PBS, pH 7.4.****Reconstitution**

It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.

Storage & Stability

Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Exendin-4 - Additional Information**Other Names**

Exendin-4, Exenatide, EXE4

Target Background

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.

Exendin-4 - Protein Information

Name EXE4

Function

Venom protein that mimics the incretin hormone glucagon-like peptide 1 (GLP-1). It stimulates insulin synthesis and secretion, protects against beta-cell apoptosis in response to different insults, and promotes beta-cell proliferation. It also promotes satiety, reduces food intake, reduces fat deposition, reduces body weight and inhibits gastric emptying. Interacts with GLP-1 receptor (GLP1R). Induces hypotension that is mediated by relaxation of cardiac smooth muscle.

Cellular Location

Secreted.

Tissue Location

Expressed by the venom gland.

Exendin-4 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Exendin-4 - Images