



Exendin-4

Catalog: BK0403

Source: E. coli

Quantity: 100µg

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.

Molecular Weight:

4.2 kDa

Purity:

> 96% as analyzed by SDS-PAGE

> 96% as analyzed by HPLC

Swiss-Prot:

P26349

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.

Formulation:

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

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.

Endotoxin:

< 0.2 EU/µg of protein by LAL method

Application:

1. Regulates Glucose levels rapidly.
2. Reduces Insulin resistance.
3. Reduces Glucagon.
4. Reduces HbA1c.
5. Stimulates beta cell growth which stimulates insulin production.

Note:

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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