Rev03
Update: Dec,14,2021

DATASHEET

Exendin-4

Cat. No.: Z02811

Product Introduction

Species	Gila monster
Protein Construction	**Exendin-4 (His48-Ser86)** **Accession # P26349**
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
Application	1. Regulates Glucose levels rapidly. 2. Reduces Insulin resistence. 3. Reduces Glucagon. 4. Reduces HbA1c. 5. Stimulates beta cell growth which stimulates insulin production.
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.

Background

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 ÃŸ-cell proliferation and neogenesis in vitro and in animal models.

Synonyms : Exendin-4

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

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