

Recombinant Exendin-4 Protein

Cat. No. 1N1901

DESCRIPTION

Expression system	<i>E. coli</i>
Amino acid sequence	His48-Ser86, Accession #P26349
Molecular mass	Recombinant Exendin-4 Protein, a monomer containing 39 amino acid residues, has a predicted molecular mass of approximately 4.2 kDa.

SPECIFICATIONS

Purity	> 98% by SDS-PAGE gel and HPLC analyses.
Endotoxin	Less than 0.01 EU/μg of rExendin-4 as determined by LAL test.
Activity	1. Regulates Glucose levels rapidly; 2. Reduces Insulin resistance; 3. Reduces Glucagon; 4. Reduces HbA1c; 5. Stimulates beta cell growth which stimulates insulin production.
Formulation	Lyophilized from a 0.22 μm filtered solution in PBS. See CoA for details.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile distilled water to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING & STORAGE

Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Please use a manual defrost freezer and avoid repeated freeze-thaw cycles. ● Lyophilized protein should be stored at ≤ -20°C, stable for 12 months after receipt. ● Reconstituted protein solution can be stored at 2-8°C for 1 month. ● Aliquots of reconstituted samples are stable at ≤ -20°C for 3 months.

BACKGROUND

Exendin-4 is a 39-amino-acid peptide naturally derived from the saliva of the Gila monster (*Heloderma suspectum*). It is a long-acting glucagon-like peptide-1 (GLP-1) receptor agonist with high sequence homology to mammalian GLP-1. Unlike endogenous GLP-1, Exendin-4 is resistant to degradation by dipeptidyl peptidase-4 (DPP-4), resulting in prolonged biological half-life. It stimulates insulin secretion, suppresses glucagon release, slows gastric emptying and reduces food intake, making it widely used in research on diabetes mellitus, obesity and metabolic disorders. Recombinant Exendin-4 is non-glycosylated, commonly produced in *Escherichia coli*, and serves as an essential tool protein for GLP-1 pathway studies and drug screening.

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For research, laboratory or further evaluation purposes. NOT for Human Use.

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