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Datasheet for ABIN4370442

Glucagon Protein (GCG) (AA 1-180) (His tag)

Overview

Quantity:	50 µg
Target:	Glucagon (GCG)
Protein Characteristics:	AA 1-180
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glucagon protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Glucagon/GCG (C-6His)
Sequence:	RSLQDTEEKS RSFSASQADP LSDPDQMNE D KRHSQGTFTS DYSKYLDSRR AQDFVQWLMN TKRNRNNIAK RHDEFERHAE GTFTSDVSSY LEGQAAKEFI AWLVKGRGRR DFPEEVAIVE ELGRRHADGS FSDEMNTILD NLAARDFINW LIQTKITDRK
Characteristics:	Recombinant Human Glucagon/GCG is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Lys180) of Human Glucagon fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Glucagon (GCG)
Alternative Name:	Glucagon (GCG Products)
Sub Type:	Fusionprotein
Background:	<p>Glucagon is a secreted protein and belongs to the glucagon family. Glucagon can be cleaved into 8 chains, playing an important role in initiating and maintaining hyperglycemic conditions in diabetes. Glucagon can regulate blood glucose by decreasing glycolysis and increasing gluconeogenesis. In addition, Glucagon is involved in initiating and maintaining hyperglycemic conditions in diabetes. Glucagon release is stimulated by hypoglycemia and inhibited by hyperglycemia, insulin, and somatostatin. In the glucagon antagonist, His-53 and Phe-58 are missing. This antagonist has been successfully utilized to reduce glucose concentration in vivo.</p> <p>Alternative Names: Glucagon, Glicentin, Glicentin-Related Polypeptide, GRPP, Oxyntomodulin, OXM, OXY, Glucagon, Glucagon-Like Peptide 1, GLP-1, Incretin Hormone, Glucagon-like Peptide 1, GLP-1, Glucagon-Like Peptide 2, GLP-2, GCG</p>
Molecular Weight:	18.6 kDa
UniProt:	P01275
Pathways:	Positive Regulation of Peptide Hormone Secretion , Peptide Hormone Metabolism , cAMP Metabolic Process , Regulation of Carbohydrate Metabolic Process , Feeding Behaviour , Negative Regulation of intrinsic apoptotic Signaling

Application Details

Restrictions:	For Research Use only
Handling	
Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 200 mM NaCl, 1 mM DTT, 50 % Glycerol, pH 8.0.
Preservative:	Dithiothreitol (DTT)
Precaution of Use:	This product contains Dithiothreitol (DTT): a POISONOUS AND HAZARDOUS SUBSTANCE

Handling

	which should be handled by trained staff only.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Expiry Date:	6 months