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Glucagon

Glucagon Human
HRM0048

Product Overview

Name	Glucagon
Description	
Glucagon Human	
Accession (Primary)	P01275
Synonyms	
GLP1, GLP2, GRPP.	
Introduction	
Glucagon is an important hormone involved in carbohydrate metabolism. The hormone is synthesized and secreted from alpha cells (?-cells) of the islets of Langerhans, which are located in the endocrine portion of the pancreas. Glucagon is released when the glucose level in the blood is low (hypoglycemia), causing the liver to convert stored glycogen into glucose and release it into the bloodstream. The action of glucagon is thus opposite to that of insulin, which instructs the body's cells to take in glucose from the blood in times of satiation. Glucagon is beneficial for the culture of some cell types. It has been used in some biochemical regulation studies of glycogenolysis in hepatocytes. It has been also been found to induce DNA replication in primary cultures of adult rat hepatocytes when used in combinations with EGF and Insulin. Glucagon increases the blood glucose concentration by promoting rapid breakdown of liver glycogen, and also acts to relax smooth muscle such as the gastrointestinal tract.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Glucagon peptide was formulated with no additives.	
Stability	
Glucagon although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Glucagon should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 96.0% as determined by RP-HPLC.	
Amino acid sequence	
His-Ser-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-Ser-Arg-Arg-Ala-Gln-Asp-Phe-Val-Gln-Trp-Leu-Met-	

Asn-Thr-OH.

Solubility

It is recommended to reconstitute the lyophilized Glucagon in a sterile 1% HCl solution at a concentration of 0.1-1 mg/ml, which can then be further diluted to other aqueous solutions.

Precautions

Glucagon is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01275)