9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

Glucagon Human, His

Glucagon Human Recombinant, His Tag
HRM0050

Product Overview

Name	Glucagon Human, His
Description	
Glucagon Human Recombinant, His Tag	
Accession (Primary)	P01275
Synonyms	
Glucagon, GCG, GLP1, GLP2, GRPP.	
Introduction	
Glucagon is an important hormone involved in carbohydrate metabolism. The hormone is synthesized and secreted from alpha cells (a-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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
Glucagon protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 50% glycerol and 0.2M NaCl.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MGSSHHHHHH SSGLVPRGSH M KRHDEFERH AEGTFTSDVS SYLEGQAAKE FIAWLVKGRG RRDFPEEVAI VEELGRRHAD GSFSDEMNTI LDNLAARDFI NWLIQTKITD RK.

Precautions

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

Target Information: (P01275)