

Product: Glucagon, human, recombinant
Catalog #: 12-4243
Amount: 50 µg

DESCRIPTION: Recombinant human Glucagon (rHuGlucagon)
rHuGlucagon is a single, non-glycosylated, polypeptide chain containing 29 amino acids and having a molecular mass of 3483 Dalton.
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.
The sequence of the first five N-terminal amino acids was determined and was found to be His-Ser-Gln-Gly-Thr

SOURCE: *Escherichia coli*

PURITY: > 98%, as determined by:
(a) Analysis by RP-HPLC and Anion-exchange FPLC.
(b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

ENDOTOXIN: < 0.1 ng/µg (IEU/µg) of rHuGlucagon

DIMERS & AGGREGATES: < 1% as determined by silver stained SDS-PAGE gel analysis

PROTEIN CONTENT: Protein quantitation was carried out by 2 independent methods:
- UV spectroscopy at 280 nm
- Analysis by RP-HPLC, using a standard solution of rHuGlucagon as a Reference Standard

FORM: Purified, in 49mgs of lactose, containing 0.1 % BSA

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

BIOLOGICAL ACTIVITY: The activity is determined by comparing, under certain conditions, the hyperglycemic effect it produces with that produced by the international standard or by reference preparation calibrated in IU and is found to be 1IU/mg.

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