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# Recombinant human Glucagon protein

Catalog Number: ATGP1139

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

90-180aa

#### UniProt No.

P01275

#### **NCBI Accession No.**

NP 002045

#### **Alternative Names**

Glucagon, GLP1, GLP2, GRPP

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

12.8 kDa (112aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.2M NaCl

#### **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Glucagon, also known as GCG, a hormone secreted by the pancreas, raises blood glucose levels. Its effect is opposite that of insulin, which lowers blood glucose levels. The pancreas releases glucagon when blood sugar (glucose) levels fall too low. Glucagon causes the liver to convert stored glycogen into glucose, which is released into the bloodstream. Glucagon also stimulates the release of insulin, so glucose can be taken up and used by



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insulin-dependent tissues. Thus, glucagon and insulin are part of a feedback system that keeps blood glucose levels at a stable level. Recombinant human GCG protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

# **Amino acid Sequence**

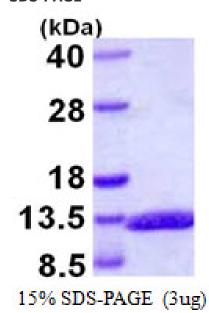
MGSSHHHHHH SSGLVPRGSH MKRHDEFERH AEGTFTSDVS SYLEGQAAKE FIAWLVKGRG RRDFPEEVAI VEELGRRHAD GSFSDEMNTI LDNLAARDFI NWLIQTKITD RK

### **General References**

Scrocchi L A., et al. (1996) Nat Med. 2:1254-1258. Rouille Y., et al. (1995) | Biol Chem. 270:26488-26496.

# **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

