

Product information

GCG, 90-180 aa

Human, His-tagged, Recombinant, *E.coli*

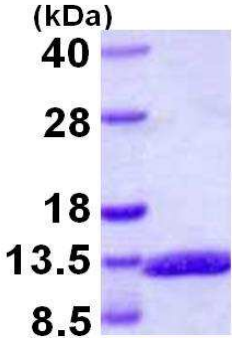
Cat. No. IBATGP1139

Full name: Glucagon

NCBI Accession No.: NP_002045

Synonyms: GLP1, GLP2, GRPP

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 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.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.2M NaCl</p> <p>Molecular Weight: 12.8 kDa (112aa), confirmed by MALDI-TOF</p> <p>Purity: > 95% by SDS - PAGE</p> <p>Concentration: 0.5 mg/ml (determined by Bradford assay)</p> <p>Endotoxin Level: < 1.0 EU per 1 µg of protein (determined by LAL method)</p>	 <p>(kDa) 40 28 18 13.5 8.5</p> <p>15% SDS-PAGE (3µg)</p>
<p>Sequences of amino acids:</p> <p>MGSSHHHHHH SSGLVPRGSH MKRHDEFERH AEGTFTSDVS SYLEGQAAKE FIAWLKGRG RRDFPEEVAI VEELGRRHAD GSFSDMNTI LDNLAARDFI NWLIQTKITD RK</p>	

General references:

Scrocchi L A., *et al.* (1996) *Nat Med.* 2:1254-1258.

Rouille Y., *et al.* (1995) *J Biol Chem.* 270:26488-26496.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C.

Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.