



# Recombinant Guinea pig Glucagon (GCG)

<b>Product Code</b>	CSB-EP009315GU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P05110
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Cavia porcellus (Guinea pig)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	RSLQDTEEKP RSVSASQTDM LDDPDQMNEK KRHSQGTFTS DYSKYLDSRR AQQFLKWLLN VKRNRNINIA
<b>Source</b>	E.coli
<b>Target Names</b>	GCG
<b>Protein Names</b>	Recommended name: Glucagon Cleaved into the following 8 chains: 1. Glicentin 2. Glicentin-related polypeptide Short name= 3. GRPP 4. Oxyntomodulin Short name= 5. OXM Short name= 6. OXY 7. Glucagon 8. Glucagon-I
<b>Expression Region</b>	21-89
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Cytoplasmic domain
<b>Target Details</b>	This protein is actually a preproprotein that is cleaved into four distinct mature peptides. One of these, glucagon, is a pancreatic hormone that counteracts the glucose-lowering action of insulin by stimulating glycogenolysis and gluconeogenesis. Glucagon is a ligand for a specific G-protein linked receptor whose signalling pathway controls cell proliferation. Two of the other peptides are secreted from gut endocrine cells and promote nutrient absorption through distinct mechanisms. Finally, the fourth peptide is similar to glicentin, an active enteroglucagon.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.