



Recombinant Cat Insulin (INS)

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| Product Code | CSB-YP011742CA |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Uniprot No. | P06306 |
| Product Type | Recombinant Protein |
| Immunogen Species | Felis catus (Cat) (Felis silvestris catus) |
| Purity | ≥85% (SDS-PAGE) |
| Sequence | FVNQHL CGSHLVEALY LVCGERGFY TPKA |
| Source | Yeast |
| Target Names | INS |
| Protein Names | Recommended name: Insulin Cleaved into the following 2 chains: 1. Insulin B chain 2. Insulin A chain |
| Expression Region | 25-54 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | Cytoplasmic domain |
| Target Details | After removal of the precursor signal peptide, proinsulin is post-translationally cleaved into two chains (peptide A and peptide B) that are covalently linked via two disulfide bonds. Binding of this mature form of insulin to the insulin receptor (INSR) stimulates glucose uptake. A variety of mutant alleles with changes in the coding region have been identified. There is a read-through gene, INS-IGF2, which overlaps with this gene at the 5' region and with the IGF2 gene at the 3' region. |
| Reconstitution | 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. |
| Shelf Life | 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. |