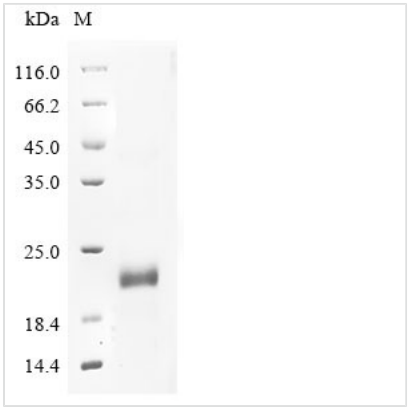
Recombinant Bovine Cation-independent mannose-6-phosphate receptor (IGF2R), partial

Product Code	CSB-YP011093BOc7
Abbreviation	Recombinant Bovine IGF2R protein, partial
Storage	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.
Uniprot No.	P08169
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	LSRTEGDNCTVFDSQAGFSFDLTPLTKKDAYKVETDKYEFHINVCGPVSVGAC PPDSGACQVSRSDRKSWNLGRSNAKLSYYDGMIQLTYRDGTPYNNEKRTPR ATLITFLCDRDAGVGFPEYQEEDNSTYNFRWYTSYACPEEP
Research Area	Immunology
Source	Yeast
Target Names	IGF2R
Expression Region	628-772aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 6xHis-tagged
Mol. Weight	18.2 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

To express the recombinant bovine cation-independent mannose-6-phosphate receptor (IGF2R) in yeast, the gene fragment encoding the specific region of bovine IGF2R, 628-772 amino acids, is fused with a C-terminal 6xHis-tag and inserted into a specialized expression vector designed for yeast systems. This vector incorporates yeast-specific regulatory elements, including a promoter and terminator, to drive efficient expression of the recombinant protein. The constructed expression vector is then introduced into yeast host cells through a transformation process. The transformed incorporating the recombinant plasmid DNA into their genome cells are selected using a selectable marker. The selected yeast cells are grown in a suitable culture medium that supports their growth and protein expression. Within the yeast cells, the recombinant IGF2R protein is synthesized utilizing the host's cellular machinery. Upon completion, the yeast cells are lysed, releasing the intracellular contents, including the expressed recombinant bovine IGF2R protein. The purified recombinant IGF2R protein is obtained from the cell lysate, and its purity is determined through SDS-PAGE analysis. The resulting protein exhibits a purity level of over 90% and appears as a distinct band with a molecular weight of approximately 20 kDa on the gel.

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

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