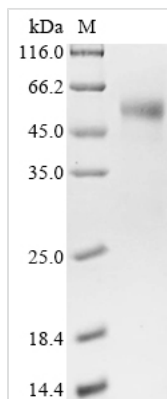




Recombinant Bovine Cation-independent mannose-6-phosphate receptor (IGF2R), partial

Product Code	CSB-MP011093BO
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 PPDSGACQVSRSDRKSWNLGRSNAKLSYYDGMQLTYRDGTPYNNEKRTPR ATLITFLCDRDAGVGFPEYQEEDNSTYNFRWYTSYACPEEP
Research Area	Immunology
Source	Mammalian cell
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 hFc1-tagged
Mol. Weight	46.1 kDa
Protein Length	Partial
Image	



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

Description

The recombinant bovine cation-independent mannose-6-phosphate receptor (IGF2R) is synthesized using a mammalian cell expression system. The expression construct contains the region encoding amino acids 628 to 772 of the bovine IGF2R protein and is fused with a C-terminal hFc-tag for enhanced stability and detection. During the production process, mammalian cells are transfected with the recombinant expression construct to enable the synthesis of the bovine IGF2R protein. Following purification, the recombinant IGF2R protein exhibits a purity of up to 90%, as determined by SDS-PAGE analysis. On the gel, the IGF2R protein appears as a distinct band with an approximate molecular weight of 49 kDa.

IGF2R plays a crucial role in cellular processes related to immunology. It functions as a receptor for mannose-6-phosphate (M6P)-tagged proteins, enabling their transport and targeting within cells. It is also involved in the regulation of lysosomal enzyme trafficking, ensuring proper lysosomal function and cellular homeostasis. It plays a role in modulating the availability and activity of IGF2, which is important for cell growth, differentiation, and development.

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.