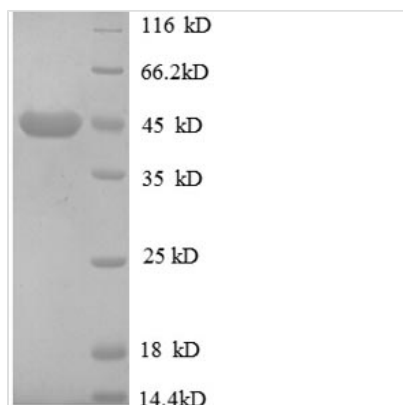




# Recombinant Human Cation-independent mannose-6-phosphate receptor (IGF2R), partial

<b>Product Code</b>	CSB-EP011093HU
<b>Relevance</b>	Transport of phosphorylated lysosomal enzymes from the Golgi complex and the cell surface to lysosomes. Lysosomal enzymes bearing phosphomannosyl residues bind specifically to mannose-6-phosphate receptors in the Golgi apparatus and the resulting receptor-ligand complex is transported to an acidic prelysosomal compartment where the low pH mediates the dissociation of the complex.
<b>Abbreviation</b>	Recombinant Human IGF2R protein, partial
<b>Storage</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.
<b>Uniprot No.</b>	P11717
<b>Product Type</b>	Recombinant Proteins
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	KKERRETVISKLTTCRRSSNVSYKYSKVNKEEETDENETEWLMEEIQLPPPR QGKEGQENGHITTKSVKALSSLHGDDQDSEDEVLTIPVVKVHSGRGAGAESS HPVRNAQSNALQEREDDRVGLVRGEKARKGKSSSAQQKTVSSTKLVSFHDD SDEDLLHI
<b>Research Area</b>	Transport
<b>Source</b>	E.coli
<b>Target Names</b>	IGF2R
<b>Expression Region</b>	2328-2491aa
<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>	N-terminal GST-tagged
<b>Mol. Weight</b>	45.3kDa
<b>Protein Length</b>	Partial
<b>Image</b>	



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

## Description

The expression vector recombined with the recombinant DNA was transformed into the E.coli for expression. The recombinant DNA resulted from the fusion of the gene coding for the 2328-2491aa of the human IGF2R protein and the N-terminal GST tag gene. The product was purified and isolated to get the recombinant human IGF2R protein with N-terminal GST tag. The purity of this recombinant IGF2R protein reaches up to 90%. Under SDS-PAGE condition, this recombinant IGF2R protein showed a band with a molecular weight of about 45 kDa on the gel.

IGF2R is a gene encoding a protein named Insulin-like growth factor 2 receptor (IGF2R, also called the cation-independent mannose-6-phosphate receptor. Mutation or loss of heterozygosity of this gene has been association with risk of hepatocellular carcinoma. IGF2R protein is a receptor for both insulin-like growth factor 2 (IGF2) and mannose 6-phosphate. This protein is a multifunctional protein receptor that binds IGF2 at the cell surface and mannose-6-phosphate (M6P)-tagged proteins in the trans-Golgi network. A study has revealed an unappreciated biological function of the IGF2-IGF2R axis in regulating the fate of maturing macrophages to acquire either a pro- or anti-inflammatory phenotype. It suggests that targeting IGF2R activation can potentially be used to reduce inflammation in the treatment of inflammatory disease.

## Shelf Life

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