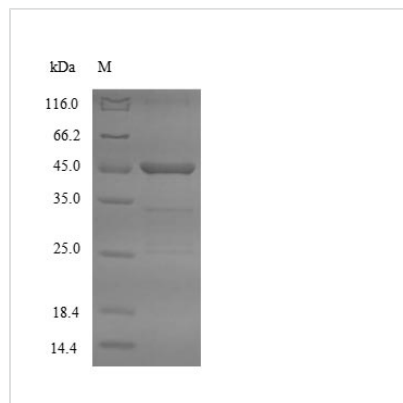




Recombinant Mouse Asialoglycoprotein receptor 2 (Asgr2),Partial

Product Code	CSB-EP002208MO1b3
Relevance	Mediates the endocytosis of plasma glycoproteins to which the terminal sialic acid residue on their complex carbohydrate moieties has been removed. The receptor recognizes terminal galactose and N-acetylgalactosamine units. After ligand binding to the receptor, the resulting complex is internalized and transported to a sorting organelle, where receptor and ligand are disassociated. The receptor then returns to the cell membrane surface.
Abbreviation	Recombinant Mouse ASGR2 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.	P24721
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QSIQLQEEFRTLKETFSNFSSSTLMEFGALDTLGGSTNAILTSWLAQLEEKQQQ LKADHSTLLFHLKHFPMDLRTLTCQLAYFQSNNGTECCPVNWVEFGGSCYWFS RDGLTWAEADQYCQLENAHLLVINSREEQDFVVKHRSQFHIWIGLTDRDGSW KWVDGTDYRSNYRNWAFTQPDNWQGHEQGGGEDCAEILSDGHWNDNFCQ QVNRWVCEKRRNITH
Research Area	Signal Transduction
Source	E.coli
Target Names	Asgr2
Protein Names	Hepatic lectin 2
Expression Region	80-301aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged
Mol. Weight	45.9kDa
Protein Length	Extracellular Domain
Image	



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

Description

The process of expressing the recombinant mouse Asgr2 protein in the E.coli requires the recombinant DNA gene formed by the integration of encoding gene for the 80-301aa of the mouse Asgr2 protein and N-terminal 10xHis-SUMO tag and C-terminal Myc tag sequence, the expression vector that the recombinant DNA gene inserts into, the E.coli that provided the necessary macromolecules and components for transcription and translation of the cloned expression vector. After isolation and purification, this N-terminal 10xHis-SUMO-tagged and C-terminal Myc-tagged recombinant Asgr2 protein was obtained. This recombinant Asgr2 protein is characterized by high purity (>90%, SDS-PAGE). This Asgr2 protein ran along the gel to the band of approximately 45 kDa molecular weight.

Asialoglycoprotein receptor 2 (also abbreviated as ASGPR2), a subunit of the Asialoglycoprotein receptor (ASGPR), is a protein encoding by a gene named Asgr2 in mouse and a gene named ASGR2 in human. Asialoglycoprotein receptor (ASGPR) is a receptor specifically expressed by hepatocytes, and it is a highly efficient endocytic receptor. The main function of ASGPR is to remove asialoglycoprotein, apoptotic cells and lipoproteins in the blood circulation system. In addition to asialoceruloplasmin, ASGPR can also bind to many other asialoglycoproteins, such as erythropoietin, interferon, thyroglobulin, transferrin, hepatoglobulin, fetuin, prothrombin and so on.

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.