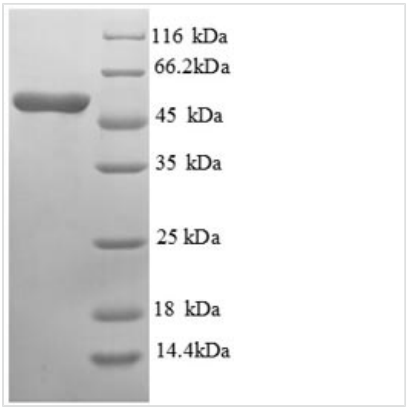
Recombinant Mouse Asialoglycoprotein receptor 1 (Asgr1), partial

Product Code	CSB-EP002207MO
Relevance	Mediates the endocytosis of plasma glycoproteins to which the terminal sialic acid residue on their complex carbohydrate moieties has been roved. 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 mbrane surface.
Abbreviation	Recombinant Mouse Asgr1 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.	P34927
Alias	Hepatic lectin 1 ;HL-1 ;mHL-1
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	QNSQLREDLLALRQNFSNLTVSTEDQVKALSTQGSSVGRKMKLVESKLEKQQ KDLTEDHSSLLLHVKQLVSDVRSLSCQMAAFRGNGSERTCCPINWVEYEGSC YWFSSSVRPWTEADKYCQLENAHLVVVTSRDEQNFLQRHMGPLNTWIGLTD QNGPWKWVDGTDYETGFQNWRPEQPDNWYGHGLGGGEDCAHFTTDGRW NDDVCRRPYRWVCETKLDKAN
Research Area	Others
Source	E.coli
Target Names	Asgr1
Expression Region	61-284aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal GST-tagged
Mol. Weight	52.8kDa
Protein Length	Extracellular Domain
Image	



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

Description

Amino acids 61-284 constitute the expression domain of recombinant Mouse Asgr1. This Asgr1 protein is expected to have a theoretical molecular weight of 52.8 kDa. The Asgr1 protein was expressed in e.coli. The N-terminal GST tag was fused into the coding gene segment of Asgr1, making it easier to detect and purify the Asgr1 recombinant protein in the later stages of expression and purification.

The research on Asialoglycoprotein receptor 1 (Asgr1) spans liver physiology, plasma protein metabolism, and related disease mechanisms. Asgr1, located on the surface of liver cells, plays a crucial role in recognizing and binding glycoproteins lacking sugar residues in the bloodstream. Studies indicate that Asgr1 is pivotal in both the physiology and pathology of the liver. Its focus in current research lies in its ability to efficiently clear excess or aged glycoproteins from the bloodstream. As the body's largest metabolic organ, the liver utilizes Asgr1 to effectively eliminate outdated proteins, maintaining a healthy balance. In addition, Asgr1 is implicated in the study of certain diseases, particularly those related to the liver. For instance, some research suggests that Asgr1 may be associated with viral infections and the development of liver tumors, making it a potential target for the treatment and prevention of liver diseases.

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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