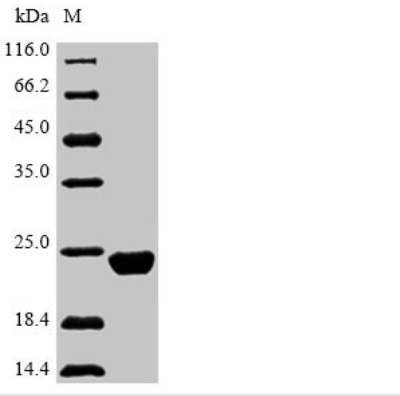
Recombinant Mouse Asc-type amino acid transporter 1 (Slc7a10), partial

Product Code	CSB-YP021710MO
Relevance	Sodium-independent, high affinity transport of small neutral D- and L-amino acids and amino acid-related compounds. May play a role in the modulation of glutamatergic transmission through mobilization of D-serine at the glutamatergic synapse.
Abbreviation	Recombinant Mouse Slc7a10 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.	P63115
Alias	D-serine transporter Solute carrier family 7 member 10
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Research Area	others
Source	Yeast
Target Names	Slc7a10
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal His-tagged Tag-Free
Mol. Weight	22.5kDa
Protein Length	Partial
Image	



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

Description	The recombinant Mouse Slc7a10 was expressed with the amino acid range of 475-530. This Slc7a10 protein is expected to have a theoretical molecular weight of 22.5 kDa. This Slc7a10 protein is produced using yeast expression system. The Slc7a10 gene fragment has been modified by fusing the N-terminal 6xHis-sumostar tag, providing convenience in detecting and purifying the recombinant Slc7a10 protein during the following stages. The mouse asc-type amino acid transporter 1 (Slc7a10) is a sodium-independent amino acid transporter that facilitates the uptake of small, neutral amino acids into cells. Slc7a10 is prominently expressed in the brain, particularly in regions like the hippocampus and cortex. The Slc7a10's presence in these areas suggests its role in regulating amino acid levels crucial for neurotransmission and neuronal function. Studies have linked alterations in Slc7a10 expression to neurological disorders. It may play a role in maintaining amino acid homeostasis in the central nervous system. Understanding the function of mouse Slc7a10 is essential for unraveling its role in amino acid metabolism, neurotransmission, and potential contributions to neurological disorders in mice.
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.