

SLC3A2 / CD98 recombinant protein

Recombinant Mouse SLC3A2 / CD98 Protein (His tag)

CATALOG #
AAA22099

HOST
HEK293 Cells

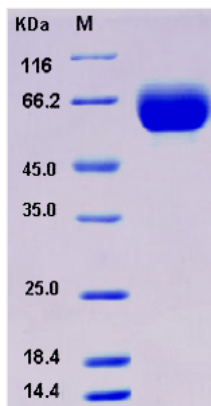
PRODUCT SYNONYMS

SLC3A2 / CD98; Recombinant Mouse SLC3A2 / CD98 Protein (His tag); 4F2 Protein; Mouse;4F2HC Protein; Mouse;AI314110 Protein; Mouse;Cd98 Protein; Mouse;Ly-10 Protein; Mouse;Ly-m10 Protein; Mouse;Ly10 Protein; Mouse;Mdu1 Protein; Mouse;Mgp-2hc Protein; Mouse;NACAE Protein; Mouse; SLC3A2 / CD98 recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 98 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4, 5% Trehalose, 5% Mannitol, 0.01% Tween-80.
Sequence Positions	Ala 139-Ala 565
Application Notes	The secreted recombinant mouse SLC3A2 comprises 446 amino acids and predicts a molecular mass of 49.2 kDa. As a result of glycosylation, the apparent molecular mass of mouse SLC3A2 is approximately 60-70 kDa in SDS-PAGE under reducing conditions.
Species	Mouse
Tag	N-His
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method.
Reconstitution	We recommend that the vial be centrifuged to opening to bring the contents to the bottom. Do not mix by vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at <-20°C. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at <-20°C for 3 months. This product is provided as lyophilized powder which is shipped with ice packs.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SLC3A2 / CD98 recombinant protein	4F2 cell-surface antigen heavy chain, also known as 4F2 heavy chain antigen, Lymphocyte activation antigen 4F2 large subunit, CD98, SLC3A2 and MDU1, is a single-pass type I I membrane protein which belongs to the SLC3A transporter family. SLC3A2 / MDU1 is expressed ubiquitously in all tissues tested with highest levels detected in kidney, placenta and testis and weakest level in thymus. During gestation, expression in the placenta is significantly stronger at full-term than at the mid-trimester stage. SLC3A2 / MDU1 is expressed in HUVECS and at low levels in resting peripheral blood Tlymphocytes and quiescent fibroblasts. It is expressed in fetal liver and in the astrocytic process of primary astrocytic gliomas. SLC3A2 / MDU1 is also expressed in retinal endothelial cells and in the intestinal epithelial cell line Caco2-BBE. SLC3A2 / MDU1 is required for the function of light chain amino-acid transporters. It involved in sodiumindependent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. SLC3A2 / MDU1 is involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. When associated with SLC7A6 or SLC7A7, SLC3A2 / MDU1 acts as an arginine/glutamine exchanger, following an antiport mechanism for amino acid transport, influencing arginine release in exchange for extracellular amino acids. SLC3A2/MDU1 plays a role in nitric oxide synthesis in human umbilical vein endothelial cells (HUVECs) via transport of Larginine. It is required for normal and neoplastic cell growth. When associated with SLC7A5/LAT1, SLC3A2 / MDU1 is also involved in the transport of L-DOPA across the blood-brain barrier, and that of thyroid hormones triiodothyronine (T3) and thyroxine (T4) across the cell membrane in tissues such as placenta.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	238637277
NCBI GeneID	17254
NCBI Accession #	NP_001154885.1
NCBI GenBank Nucleotide #	NM_001161413.1
UniProt Accession #	P10852; Q54AH5; G3UWA6
Molecular Weight	Mol Mass: 49.2 kDa AP Mol Mass: 60-70 kDa
NCBI Official Full Name	4F2 cell-surface antigen heavy chain isoform a
NCBI Official Synonym Full Names	solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
NCBI Official Symbol	Slc3a2
NCBI Official Synonym Symbols	4F2; Cd98; Ly10; Mdu1; 4F2HC; Ly-10; NACAE; Ly-m10; Mgp-2hc; AI314110
NCBI Protein Information	4F2 cell-surface antigen heavy chain
UniProt Protein Name	4F2 cell-surface antigen heavy chain
UniProt Gene Name	Slc3a2
UniProt Synonym Gene Names	Mdu1; 4F2hc

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/slc3a2-recombinant-protein-hek293-cells/22099>