
Product Data Sheet

Product Name: SLC3A2 Human

Cat. No.: GP24606

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.

Synonyms

Solute Carrier Family 3 Member 2; Lymphocyte Activation Antigen 4F2 Large Subunit; Solute Carrier Family 3 (Activators Of Dibasic And Neutral Amino Acid Transport); Member 2; Antigen Identified By Monoclonal Antibodies 4F2; TRA1.10; TROP4; And T43; Solute Carrier Family 3 (Amino Acid Transporter Heavy Chain); Member 2; 4F2 Cell-Surface Antigen Heavy Chain; Monoclonal Antibody 44D7; CD98 Heavy Chain; 4F2HC; MDU1; Antigen Defined By Monoclonal Antibody 4F2; Heavy Chain; Antigen Defined By Monoclonal Antibody 4F2; 4F2 Heavy Chain Antigen; 4F2 Heavy Chain; CD98 Antigen; Heavy Chain; CD98HC; 4T2HC; NACAE; CD98; 4F2; 4F2 cell-surface antigen heavy chain.

Amino Acid Sequence

ADPRAPRCRE LPAQKWWHTG ALYRIGDLQA FQGHGAGNLA GLKGRLDYLS
 SLKVKGLVLG PIHKNQKDDV AQTDLLQIDP NFGSKEDFDS LLQSAKKKSI
 RVILDLTPTY RGENSWFSTQ VDTVATKVKD ALEFWLQAGV DGFQVRDIEN
 LKDASSFLAE WQNITKGFSE DRLLIAGTNSSDLQQILSLL ESNKDLLLTS
 SYLSDSGSTG EHTKSLVTQY LNATGNRWCS WSLSQARLLT SFLPAQLLRL
 YQLMLFTLPG TPVFSYGDEI GLDAAALPGQ PMEAPVMLWD ESSFPDIPGA
 VSANMTVKGQ SEDPGSLLSL FRRLSDQRSK ERSLLHGDFH AFSAGPGLFS
 YIRHWDQNERFLVVLNFGDV GLSAGLQASD LPASASLPK ADLLLSTQPG
 REEGSPLELE RLKLEPHEGL LLRFPYAAHH HHHH.

Formulation

SLC3A2 protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Introduction

SLC3A2, also known as Solute Carrier Family 3 Member 2, is a single-pass type II membrane protein which is part of the SLC3A transporter family. SLC3A2 is expressed

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ubiquitously in all tissues tested with the highest levels detected in kidney, placenta and testis and lowest level in thymus. SLC3A2 is essential for the function of light chain amino-acid transporters and also takes part in sodium-independent, high-affinity transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. SLC3A2 participates in guiding and targeting of LAT1 and LAT2 to the plasma membrane.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

SLC3A2 produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 434 amino acids (206-630a.a.) and having a molecular mass of 47.9kDa. (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). SLC3A2 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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