

Active Recombinant Human SLC3A2, Fc-tagged

Cat. No. SLC3A2-588H Lot. No. (See product label)

SPECIFICATION

Product Overview	The recombinant human CD98-Fc is expressed as a 648 amino acid protein consisting of Arg110 - Ala529 region of CD98 (UniProt Accession # P08195 - isoform 2) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	Human Cells
ProteinLength	110-529 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free).
Bio-activity	Immobilized CD98 protein binds anti-CD98 monoclonal antibody human IgG1 with high affinity (KD < 10 ⁻⁸ nm) in a functional elisa. blocks cd98/lat-mediated amino acid transporter and signaling.
Molecular Mass	Calculated molecular mass (kDa): 71.8; Estimated by SDS-PAGE under reducing condition (kDa): 80-90
AA Sequence	RELPAQKWWHTGALYRIGDLQAFQGHGAGNLAGLKGRLDYLSLKVKGLVLPPIHK NQKDDVAQTDLLQIDPNF GSKEDFDSLLQSAKKKSIRVILDLTPNYRGENSWFSTQV DTVATKVKDALEFWLQAGVDGFQVRDIENLKDASS FLAEWQNITKGFSEDRLLIAGT NSSDLQQILSLESNKDLLLLTSSYLSDSGSTGEHTKSLVTQYLNATGNRWCS WSL QARLLTSFLPAQLLRLYQLMLFTLPGTPVFSYGDEIGLDAALPGQPMEAPVMLWDE

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SSFPDIPGAVSAN MTVKGGQSEDPGSLLSLFRRLSDQRSKERSLLHGDFHAFSAGPG
 LFSYIRHWDQNERFLVVLNFGDVGLSAGLQA SDLPASASLPKADLLLSTQPGREE
 GSPLELERLKLEPHEGLLLRFPYAASTGTHTCPPCPAPPELLGGPSVFLF PPKPKDTL
 MISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLT
 VLHQDWLNG KEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSREEMTKNQV
 SLTCLVKGFIYPSDIAVEWESNGQPENN YKTPPVLDSDGSFFLYSKLTVDKSRWQQ
 GNVFSCSVMHEALHNHYTQKSLSLSPGK

Endotoxin <0.1 eu per 1 µg of purified recombinant protein determined by the

Purity >95% judged by SDS-PAGE under reducing condition

Storage The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name SLC3A2 solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 [Homo sapiens]

Official Symbol SLC3A2

Synonyms SLC3A2; solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2; MDU1; 4F2 cell-surface antigen heavy chain; 4F2; 4F2 cell surface antigen heavy chain; 4F2 heavy chain; 4F2HC; 4T2HC; antigen defined by monoclonal 4F2; antigen identified by monoclonal antibodies 4F2; TRA1.10; TROP4; and T43; CD98; CD98 heavy chain; CD98HC; heavy chain; lymphocyte activation

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antigen 4F2 large subunit; monoclonal 44D7; NACAE; antigen defined by monoclonal 4F2, heavy chain; antigen identified by monoclonal antibodies 4F2, TRA1.10, TROP4, and T43;

Gene ID [6520](#)

mRNA Refseq [NM_001012662](#)

Protein Refseq [NP_001012680](#)

MIM [158070](#)

UniProt ID [P08195](#)

Chromosome Location 11q12-q22

Pathway

Amino acid transport across the plasma membrane, organism-specific biosystem; Basigin interactions, organism-specific biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Protein digestion and absorption, organism-specific biosystem; Protein digestion and absorption, conserved biosystem;

Function

calcium:sodium antiporter activity; catalytic activity; cation binding; neutral amino acid transmembrane transporter activity; protein binding;

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