

# Recombinant human CD98 protein

Catalog Number: ATGP3676

## PRODUCT INFORMATION

---

### Expression system

Baculovirus

### Domain

206-630aa

### UniProt No.

P08195

### NCBI Accession No.

NP\_002385

### Alternative Names

4F2 cell-surface antigen heavy chain isoform c, SLC3A2, 4F2, 4F2HC, 4T2HC, CD98, CD98HC, MDU1, NACAE

## PRODUCT SPECIFICATION

---

### Molecular Weight

47.9 kDa (434aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

---

### Description

SLC3A2, also known as 4F2 cell-surface antigen heavy chain isoform c, is a single-pass type II membrane protein which belongs to the SLC3A transporter family. It is expressed ubiquitously in all tissues tested with highest levels detected in kidney, placenta and testis and weakest level in thymus. This protein is required for the function of light chain amino-acid transporters and also involved in sodium-independent, high-affinity

# Recombinant human CD98 protein

Catalog Number: ATGP3676

transport of large neutral amino acids such as phenylalanine, tyrosine, leucine, arginine and tryptophan. This protein involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. Recombinant human SLC3A2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

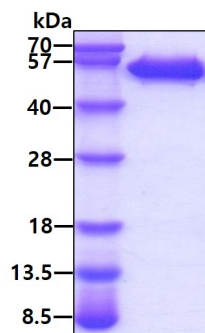
<ADP>RAPRCRE LPAQKWWHTG ALYRIGDLQA FQGHGAGNLA GLKGRLDYLS SLKVKGLVLG PIHKNQKDDV  
AQTDLLQIDP NFGSKEDFDS LLQSAKKKS I RVILDLT PNY RGENSWFSTQ VDTVATKVKD ALEFWLQAGV DGFQVRDIEN  
LKDASSFLAE WQNITKGFSE DRLLIAGTNS SDLQQILSLL ESNKDLLLLS SYLSDSGSTG EHTKSLVTQY LNATGNRWCS  
WSLSQARLLT SFLPAQLLRL YQLMLFTLPG TPVFSYGDEI GLDAAALPGQ PMEAPVMLWD ESSFPDIPGA VSANMTVKGQ  
SEDPGSLLSL FRRLSDQRSK ERSLLHGDFH AFSAGPLFS YIRHWDQNER FLVVLNFGDV GLSAGLQASD LPASASLPK  
ADLLLSTQPG REEGSPELE RLKLEPHEGL LLRFPYAA<HH HHHH>

## General References

Mastroberardino L., et al. (1998) Nature. 395:288-291.  
Fort J., et al. (2007) J Biol Chem. 282:31444-31452.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.