

## CD98 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P75367
Synonyms:	4F2 cell-surface antigen heavy chain; 4F2hc; CD98; SLC3A2
Species:	Mouse
Source:	HEK293
Accession:	NP_001154885.1 (A139-A565)
Gene ID:	17254
Molecular Weight:	60-80 kDa

### PROPERTIES

#### AA Sequence

A P R C R E L P V Q	R W W H K G A L Y R	I G D L Q A F V G R	D A G G I A G L K S
H L E Y L S T L K V	K G L V L G P I H K	N Q K D E I N E T D	L K Q I N P T L G S
Q E D F K D L L Q S	A K K K S I H I I L	D L T P N Y Q G Q N	A W F L P A Q A D I
V A T K M K E A L S	S W L Q D G V D G F	Q F R D V G K L M N	A P L Y L A E W Q N
I T K N L S E D R L	L I A G T E S S D L	Q Q I V N I L E S T	S D L L L T S S Y L
S N S T F T G E R T	E S L V T R F L N A	T G S Q W C S W S V	S Q A G L L A D F I
P D H L L R L Y Q L	L L F T L P G T P V	F S Y G D E L G L Q	G A L P G Q P A K A
P L M P W N E S S I	F H I P R P V S L N	M T V K G Q N E D P	G S L L T Q F R R L
S D L R G K E R S L	L H G D F H A L S S	S P D L F S Y I R H	W D Q N E R Y L V V
L N F R D S G R S A	R L G A S N L P A G	I S L P A S A K L L	L S T D S A R Q S R
E E D T S L K L E N	L S L N P Y E G L L	L Q F P F V A	

**Appearance** Lyophilized powder

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

**Background** CD98, a multifunctional protein, is predicted to possess amino acid transmembrane transporter activity and double-

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stranded RNA binding activity. Its involvement in carboxylic acid transport and viral entry into host cells, as well as its role upstream of response to exogenous dsRNA, highlights its diverse functions. CD98 is strategically located in the apical pole of neurons and is actively engaged in synaptic processes. Its expression spans various structures, including the alimentary system, brain, genitourinary system, hemolymphoid system gland, and spinal cord. The ubiquity of CD98 expression is evident in numerous tissues, such as the kidney, genital fat pad, and 28 other tissues, underscoring its importance in various physiological contexts. Elucidating the intricate roles of CD98 in transport, cellular entry, and synaptic function is essential for comprehending its contributions to cellular processes and potential implications in health and disease.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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