

For Research Use Only

# Recombinant Mouse CD98 protein (His Tag)



Catalog Number: Eg1374

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/μg protein, LAL method

**Source:**

HEK293-derived Mouse CD98 protein Ala100-Ala526 (Accession# P10852-1) with a His tag at the N-terminus.

**GeneID:**

17254

**Accession:**

P10852-1

**Predicted Molecular Mass:**

48.7 kDa

**SDS-PAGE:**

**Formulation:**

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD98 is a cell-surface heterodimer consisting of a heavy chain (CD98hc) and a light chain. CD98hc also interacts with certain integrin  $\beta$ -subunits to regulate cell migration, survival, proliferation, and adhesion/polarity. CD98hc is overexpressed on the cell surface of many cancers and increased CD98hc expression is associated with the development and progression of tumors (PMID:25084765). This protein has 4 isoforms with the molecular mass of 58-71 kDa and can be detected 85-94 kDa due to glycosylation. The glycosylated CD98hc can link to a non-glycosylated light chain (~40 kDa) via a disulfide bond to form a heterodimeric CD98 antigen with molecular mass of 120-130 kDa (PMID: 14770309).

## References

1. Fei, Fei et al. Annals of surgical oncology vol. 21,13 (2014): 4359-68.
2. Digomann, David et al. Clinical cancer research : an official journal of the American Association for Cancer Research.
3. Palacín, Manuel, and Yoshikatsu Kanai. Pflugers Archiv : European journal of physiology vol. 447,5 (2004): 490-4.

## Synonyms

For technical support and original validation data for this product please contact

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