## PRODUCT INFORMATION

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|---|---|
| **Target** | CD98 |
| **Synonyms** | CD98, SLC3A2, CD98HC, CD98 Heavy Chain, 4F2, 4F2HC, 4F2 Heavy Chain, 4T2HC, MDU1, NACAE, Solute Carrier Family 3 Member 2, 4F2 Cell-Surface Antigen Heavy Chain |
| **Description** | Recombinant Cynomolgus CD98 protein with N-terminal 10×His tag |
| **Delivery** | In STOCK |
| **Uniprot ID** | XP_045227941.1 |
| **Expression Host** | HEK293 |
| **Tag** | N-10×His tag |
| **Molecular Characterization** | 10×His tag+Cynomolgus CD98(Arg175-Ala599) |
| **Molecular Weight** | The protein has a predicted molecular mass of 48.3 kDa after removal of the signal peptide. |
| **Purity** | The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining. |
| **Formulation & Reconstitution** | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. |
| **Sterility** | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use. |
| **Storage&Shipping** | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |
| **Background** | CD98, also known as SLC3A2 or CD98 heavy chain, is a type II transmembrane glycoprotein that forms the heavy subunit of several heteromeric amino acid transporters. CD98 heavy chain is covalently linked through a disulfide bond to light-chain transporters belonging to the SLC7 family, including LAT1, LAT2, and xCT. These heterodimeric complexes mediate the transport of neutral amino acids, cationic amino acids, or cystine across the plasma membrane. CD98 also interacts with integrins and participates in the regulation of cell adhesion, migration, proliferation, survival, and metabolic signaling. Increased CD98 expression is frequently associated with activated immune cells and rapidly proliferating tumor cells. Therefore, CD98 is an important target for amino acid transport, cellular metabolism, immunology, and oncology research. |
| **Usage** | Research use only |
| **Conjugate** | Unconjugated |

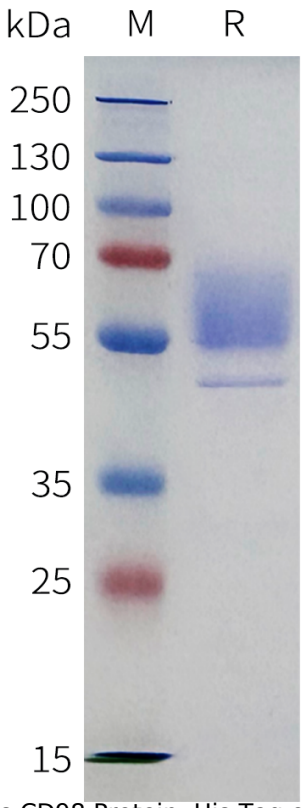


Figure 1. Cynomolgus CD98 Protein, His Tag on SDS-PAGE under reducing condition.