

## 32-7491: Recombinant Human SLC3A2/MDU1/CD98 (C-6His)

**Gene :** SLC3A2

**Gene ID :** 6520

**Uniprot ID :** P08195

### Description

Source: Human Cells.

MW :47.89kD.

Recombinant Human CD98 is produced by our Mammalian expression system and the target gene encoding Arg206-Ala630 is expressed with a 6His tag at the C-terminus. CD98 is a single-pass type I I membrane protein which belongs to the SLC3A transporter family. SLC3A2/MDU1 is expressed ubiquitously in all tissues tested with highest levels detected in kidney, placenta and testis and weakest level in thymus. It consists of an 85 kDa glycosylated type II transmembrane heavy chain and a 40-50 kDa non-glycosylated light chain with 12 transmembrane segments. The heavy chain (SLC3A2) pairs with one of several light chains (SLC7A5, 6, 7, 8, 10, or 11) and is required for the cell surface expression and amino acid transport function of the light chains. It is involved in guiding and targeting of LAT1 and LAT2 to the plasma membrane. It also mediates integrin signaling, T cell costimulation, B cell proliferation, and viral fusion with cell membranes.

### Product Info

**Amount :** 10 µg / 50 µg

**Content :** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, 5% Threhalose, pH 7.2.

Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks.

**Storage condition :** Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.

**Amino Acid :** RAPRCRELPAQKWWHTGALYRIGDLQAFQGHGAGNLAGLKGRLDYSSLKVKGLVLGPVHKNQKD  
DVAQTDLLQIDPNFGSKEDFDSLLQSAAKKKSIRVILDTPNYRGNSWFSTQVDTVATKVKDALEFW  
LQAGVDGFQVRDIENLKDASSFLAEWQNITKGFSERLLIAGTNSSDLQQILSLLESNKDLLLLTSSYL  
SDSGSTGEHTKSLVTQYLNATGNRWCSWSLSQARLLTSFLPAQLLRLYQLMLFTLPGTPVFSYGD  
EIGLDAAALPGQPMEAPVMLWDESSFPDIPGAVSANMTVKGQSEDPGSLLSLFRRLSDQRSKERS  
LLHGDFHAFSAGPGLFSYIRHWDQNERFLVVNLNFGDVGLSAGLQASDLPASASLPKADLLLSTQP  
GREGSPLELERLKLPEHGLLLRFPYAAVDHHHHHH

### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.