

# Recombinant Human CD38 Protein

Catalog No.: RP00552 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	952	P28907-1

### Tags

C-hFc

### Synonyms

ADPRC 1; T10; CD38; ADP-ribosyl cyclase 1; cADPr hydrolase 1; CD38 molecule; EC 2.4.99.20; EC 3.2.2.6

## Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
56.6 kDa	60-70 kDa

### Endotoxin

&lt; 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

CD38 is highly and uniformly expressed on multiple myeloma (MM) cells, and at relatively low levels on normal lymphoid and myeloid cells, and in some tissues of nonhematopoietic origin. CD38 is a transmembrane glycoprotein with ectoenzymatic activity, and also functions as a receptor and adhesion molecule. Altogether, this has triggered the development of several CD38 antibodies including daratumumab (fully human), isatuximab (chimeric), and MOR202 (fully human).

## Basic Information

### Description

Recombinant Human CD38 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val43-Ile300) of Human CD38 (Accession #P28907-1) fused with a C-hFc tag at the C-terminus.

### Bio-Activity

### Shipping

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

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

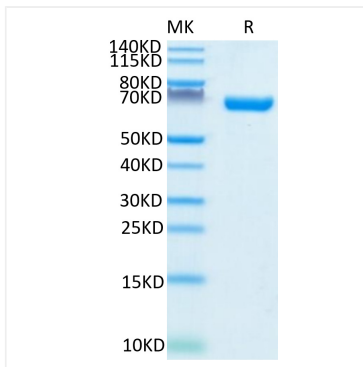
Avoid repeated freeze/thaw cycles.

### Operational Notes

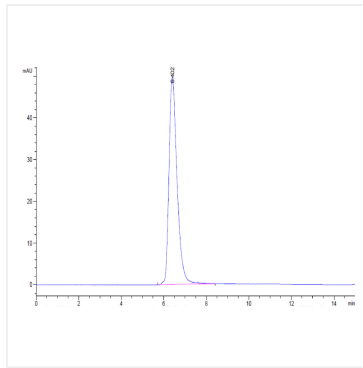
For your safety and health, please wear a lab coat and disposable gloves for handling.



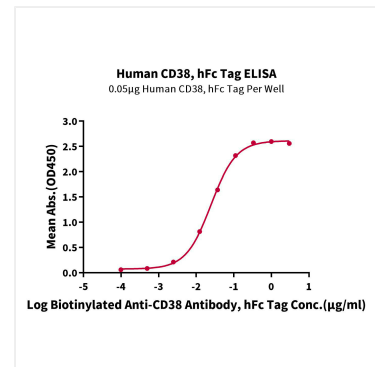
## Validation Data



Recombinant Human CD38 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human CD38 is greater than 95% as determined by SEC-HPLC.



Immobilized Human CD38, hFc Tag at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Anti-CD38 Antibody, hFc Tag with the  $EC_{50}$  of 24.8ng/mL determined by ELISA.