

## CD38 Protein, Human, Recombinant (His) V2

### General Information

Synonyms:	CD38 molecule;T10;ADPRC1;ADPRC 1
Protein Construction:	Val43-Ile300
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P28907-1
Molecular Weight:	30.7 kDa (Predicted); 45-58 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human CD38, His Tag at 1 µg/ml (100 µl/Well) on the plate. Dose response curve for Anti-CD38 Antibody, hFc Tag with the EC50 of 28.4 ng/ml determined by ELISA (QC Test).  Anti-CD38 Antibody captured on Protein A chip, can bind Human CD38, His Tag with an affinity constant of 0.23 µM as determined in a SPR assay (Biacore T200).
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

CD38 (cluster of differentiation 38), also known as cyclic ADP ribose hydrolase, is a transmembrane glycoprotein found on the surface of some immune cells including plasma cells, activated or immature T and B cells, monocytes, and natural killer cells. CD38 participates in cell adhesion, signal transduction and calcium signaling.

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