

Recombinant Human CD38 Protein

Catalog No.: RP00553 **Recombinant**

Sequence Information

Species HEK293 cells
Gene ID 952
Swiss Prot P28907-1

Tags
 C-His

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

<I>E. coli</I>

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

Endotoxin

< 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.

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.

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-His 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.

Operational Notes

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

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.

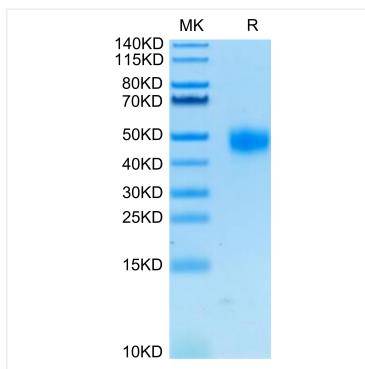
Avoid repeated freeze/thaw cycles.

Contact

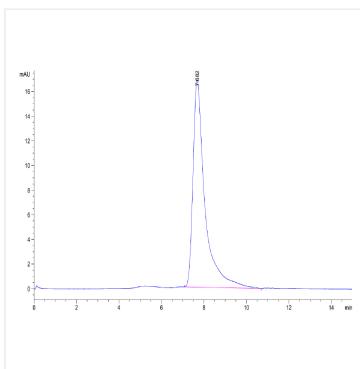


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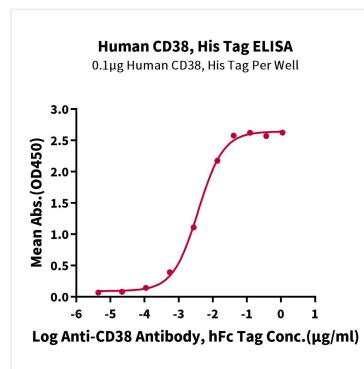
Validation Data



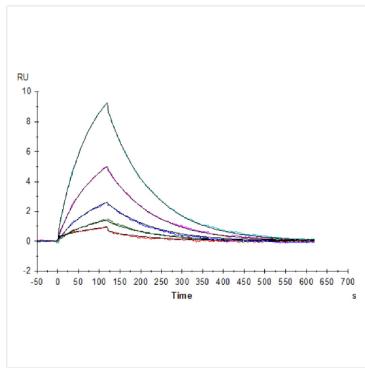
Recombinant Human CD38 Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Human CD38, His Tag at 1 μ g/mL (100 μ L/Well) on the plate. Dose response curve for Anti-CD38 Antibody, hFc Tag with the EC₅₀ of 3.7ng/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 μ M as determined in a SPR assay (Biacore T200).