Biotinylated Recombinant Human CD38 Protein

Catalog No.: RP00553B

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Sequence Information

Species
Human

Gene ID
952

Swiss Prot
P28907-1

Tags
C-His&Avi

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
HEK293 cells

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

Calculated MW
32.50 kDa

Observed MW
42-50 kDa

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 stablizer (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
Biotinylated 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&Avi tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

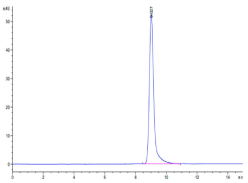
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

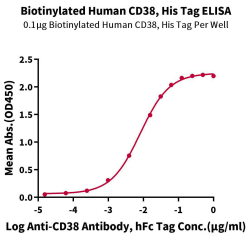
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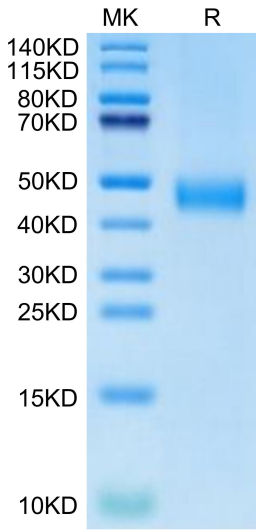
Validation Data



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



Immobilized Biotinylated Human CD38, His Tag at 1 μg/mL (100 μL/well) on the streptavidin precoated plate(5 μg/mL). Dose response curve for Anti-CD38 Antibody, hFc Tag with the EC_{50} of 8.1ng/mL determined by ELISA.



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