

Recombinant Human CD38 Protein

Catalog No.: RP00151

Sequence Information

Species	Gene ID
Human	952
Swiss Prot	Tags
P28907	C-His

Synonyms

CD38,ADPRC 1,ADPRC1

Product Information

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

Calculated MW

30.71 kDa

Observed MW
40-55 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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

The protein is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia.

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 #NP_001766.2) fused with a 6×His tag at the C-terminus.

Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human CD38 Protein at 1 μg/mL (100 μL/well) can bind CD38 Rabbit pAb with a linear range of 0.244-3.2 ng/mL.
2. Loaded CD38 Rabbit mAb (Catalog: A20215) on ProA Biosensor, can bind Human CD38 Protein, C-His (Catalog: RP00151) with an affinity constant of 4.1 nM as determined in BLI assay (Gator).

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°C

Operational Notes

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

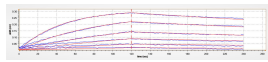
Contact

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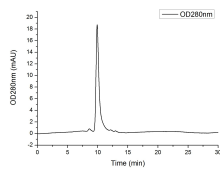
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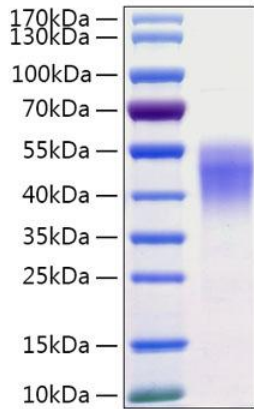
Validation Data



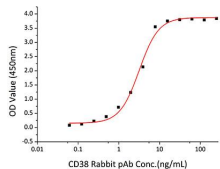
Loaded CD38 Rabbit mAb (Catalog:A20215) on ProA Biosensor, can bind Human CD38 Protein, C-His (Catalog: RP00151) with an affinity constant of 4.1 nM as determined in BLI assay (Gator).



The purity of Human CD38 Protein (Cat.RP00151) was greater than 95% as determined by SEC-HPLC.



Recombinant Human CD38 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human CD38 Protein at 1µg/mL (100 µL/well) can bind CD38 Rabbit pAb with a linear range of 0.244-3.2 ng/mL.