

Technical Data Sheet

Biotinylated Human CD38 Protein (C-His-Avi)

Catalog Number: 800003, 800004

Size: 25 ug, 100 ug

Target Name: CD38, T10, cADPr 1

Regulatory Status: RUO

Product Details

Application: ELISA, BLI

Format: Liquid, Biotinylated

Expression Host: HEK293

Species: Human

Sources: Human CD38 protein (Val43-Ile300) with C-terminus His tag and Avi tag is expressed in HEK293 cells. This protein was site-specifically labeled with Biotin by BirA ligase.

Accession Number: P28907

Molecular Weight: The 285 amino acid protein has a predicted molecular weight of 33 kDa. The protein migrates at approximately 35-45 kDa on SDS-PAGE with DTT-reduced conditions.

Affinity Tag: C-His-Avi

Purity: >95% based on SDS-PAGE under reducing condition

Formulation: 1xPBS buffer, pH7.4, 0.22 µm filtered

Endotoxin level: Not tested

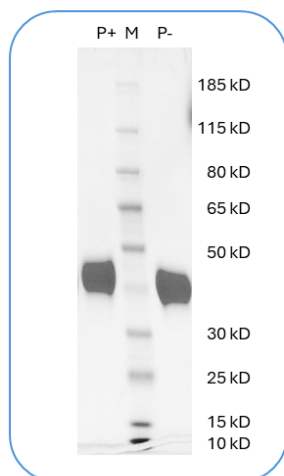
Protein Concentration: 25µg size is bottled at 0.2mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

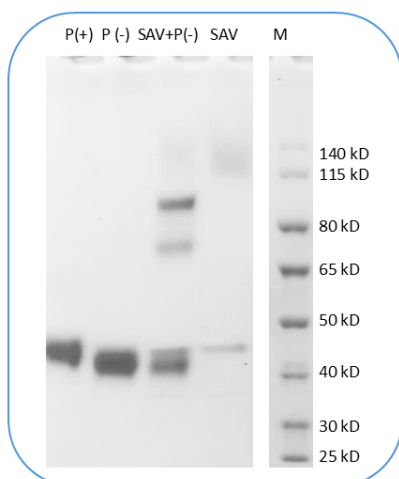
Background Information

CD38 (ADP-ribosyl cyclase 1) is a Type II membrane protein involved in calcium signaling through the conversion of NAD(P)⁺ into cADPR, NAADP⁺, and ADP-ribose. It is broadly expressed in immune cells and various tissues, and is linked to immune regulation, cancer, and metabolic disorders. CD38 also serves as a prognostic marker in leukemia.

Product Data



Biotinylated human CD38 protein (C-His) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%. Biotinylated efficiency of this protein is > 80% based Streptavidin Gel shift assay.



Human CD38 Protein (C-His-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the CD38 protein exceeds 70%.