

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HUMAN CD38 PROTEIN, HFC-HIS TAG

Cat.#: 11132

Product Name: Human CD38 Protein

Size: 10 μg, 50 μg and 100 μg

Synonyms: CD38;T10;cADPr hydrolase 1

Target: CD38

UNIPROT ID: P28907

Description: Recombinant human CD38 protein with C-terminal human Fc and 6xHis

tag

Background: CD antigen CD38 is also known as ADP-ribosyl cyclase 1, which belongs to the ADP-ribosyl cyclase family. CD38 is expressed at high levels in pancreas, liver, kidney, brain, testis, ovary, placenta, malignant lymphoma and neuroblastoma. CD38 is a multifunctional ectoenzyme that catalyzes the synthesis and hydrolysis of cyclic ADP-ribose (cADPR) from NAD to ADP-ribose. These reaction products are essential for the regulation of intracellular Ca2. The loss of CD38 function is associated with impaired immune responses, metabolic disturbances, and behavioral modifications. The CD38 protein is a marker of cell activation. It has been connected to HIV infection, leukemias, myelomas, solid tumors, type II diabetes mellitus and bone metabolism. CD38 has been used as a prognostic marker in leukemia.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 70-72 kDa after removal of the signal peptide.

Molecular Characterization: CD38(Val43-Ile300) hFc(Glu99-Ala330) 6×His tag **Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



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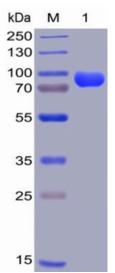


Figure 1. Human CD38, hFc-His Tag on SDS-PAGE under reducing condition.

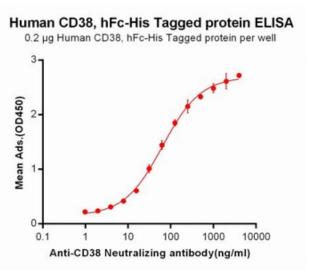


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD38, hFc-His tagged protein (11132) can bind Anti-CD38 Neutralizing antibody 28013 in a linear range of 0.98-64.14 ng/ml.