

Recombinant Mouse Cd38 Protein, His Tagged

Cat. No. Cd38-11222M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse CD38, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 45-Thr 304 (Accession # P56528-1). This protein carries a polyhistidine tag at the C-terminus. The protein is designed as a dimer. Predicted N-terminus: Leu 45
Species	Mouse
Source	HEK293
ProteinLength	45-304 aa
Description	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 Ca ²⁺ . 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.
Form	Lyophilized from 0.22 µm filtered solution in 50 mM MES, 100 mM NaCl, pH6.5 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 31.7 kDa. The protein migrates as 38-45 kDa

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	under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>90% as determined by SDS-PAGE. >95% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

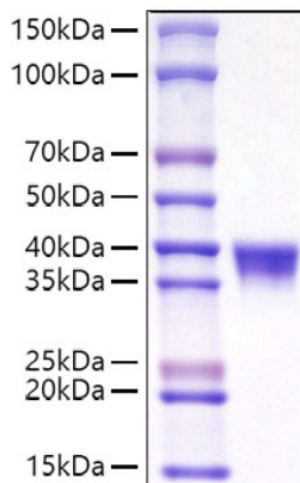
Gene Name	Cd38 CD38 antigen [<i>Mus musculus</i> (house mouse)]
Official Symbol	Cd38
Synonyms	CD38; CD38 antigen; ADP-ribosyl cyclase 1; I-19; NIM-R5 antigen; cADPr hydrolase 1; cyclic ADP-ribose hydrolase 1; Cd38-rs1;
Gene ID	12494
mRNA Refseq	NM_007646
Protein Refseq	NP_031672
UniProt ID	P56528

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SDS-PAGE



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