

Active Recombinant Rat Cd38 protein(Trp45-Val303), hFc-tagged

Cat. No. Cd38-8742R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CD38 (Q64244) (Trp45-Val303) was expressed in HEK293, fused with the Fc region of Human IgG1 at the C-terminus.
Source	HEK293
Species	Rat
Tag	C-hFc
Protein length	Trp45-Val303
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured by its ability to convert the substrate nicotinamide guanine dinucleotide (NGD+) to cyclic GMP. The specific activity is >50,000 pmols/min/ug.
Molecular Mass	The recombinant Rat CD38 /Fc is a disulfide-linked homodimer. The reduced monomer comprises 500 amino acids and has a predicted molecular mass of 56.7 kDa. The apparent molecular mass of the protein is approximately 67 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method

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Purity	> 95 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. 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 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cd38 CD38 molecule [<i>Rattus norvegicus</i>]
Official Symbol	Cd38
Synonyms	CD38; CD38 molecule; ADP-ribosyl cyclase 1; CD38H; cADPr hydrolase 1; cyclic ADP-ribose hydrolase 1; CD38 antigen (ADP-ribosyl cyclase / cyclic ADP-ribose hydrolase);
Gene ID	25668
mRNA Refseq	NM_013127
Protein Refseq	NP_037259

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