

Recombinant Rat CD38 protein(Trp45-Val303), His-tagged

Cat. No. Cd38-8743R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat CD38 (Q64244) (Trp45-Val303) was expressed in HEK293, fused with a polyhistidine tag at the C-terminus.
Species	Rat
Source	HEK293
ProteinLength	45-303 a.a.
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 GDPribose. The specific activity is >100, 000pmols/min/ug.
Molecular Mass	The recombinant rat CD38 comprises 270 amino acids and predicts a molecular mass of 31.2 kDa. The apparent molecular mass of the recombinant protein is approximately 42 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
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

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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 [[Rattus norvegicus](#)]

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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