

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

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

SPECIFICATION

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| 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 GDPribose. The specific activity is >50,000pmols/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

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| 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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