

## Active Recombinant Mouse Cd38 protein(Met1-Thr304), His-tagged

**Cat. No.** Cd38-3112M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse CD38 (NP_031672.2) (Met1-Thr304) was expressed in HEK293, fused with a C-terminal polyhistidine tag.                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | Met1-Thr304                                                                                                                                                                                                                                   |
| <b>Form</b>             | Lyophilized from sterile 20mM MES, 0.15M NaCl, pH 6.5 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                                                                |
| <b>Bio-activity</b>     | Measured by its ability to convert the substrate nicotinamide guanine dinucleotide (NGD+) to cyclic GDPribose. The specific activity is >50, 000pmols/min/ug.                                                                                 |
| <b>Molecular Mass</b>   | The recombinant mouse CD38 consists of 271 amino acids and has a calculated molecular mass of 31.3 kDa. As a result of glycosylation, the apparent molecular mass of rmCD38 is approximately 38-42 kDa in SDS-PAGE under reducing conditions. |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                               |
| <b>Purity</b>           | > 97 % as determined by SDS-PAGE                                                                                                                                                                                                              |

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**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 antigen [ *Mus musculus* ]

**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

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