

# Recombinant Human CD38 Protein, His-tagged

**Cat. No.** CD38-155H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| <b>Product Overview</b> | Recombinant human CD38 protein with His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>The protein encoded by this gene is a non-lineage-restricted, type II transmembrane glycoprotein that synthesizes and hydrolyzes cyclic adenosine 5'-diphosphate-ribose, an intracellular calcium ion mobilizing messenger. The release of soluble protein and the ability of membrane-bound protein to become internalized indicate both extracellular and intracellular functions for the protein. This protein has an N-terminal cytoplasmic tail, a single membrane-spanning domain, and a C-terminal extracellular region with four N-glycosylation sites. Crystal structure analysis demonstrates that the functional molecule is a dimer, with the central portion containing the catalytic site. It is used as a prognostic marker for patients with chronic lymphocytic leukemia. Alternative splicing results in multiple transcript variants.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | 30.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | <p>MANCEFSPVSGDKPCCRLSRRAQLCLGVSILVLILVVVLAVVVPRWRQQWSGPGTT</p> <p>KRFPETVLARCCKYTEIHPEMRHVDCQSVWDAFKGAFISKHPCNITEEDYQPLMKLG</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

TQTVPCNKILLWSRIKDLAQFTQVQRDMFTLEDTLGLYLADDLTWCGEFNTSKINY  
 QSCPDWRKDCSNNPVSVFWKTVSRRFAEAACDVVHVMLNGSRKIFDKNSTFGSV  
 EVHNLQPEKVQTTLEAWVIHGGREDSRDLCQDPTIKELESIIISKRNIIQFSCKNYRPDK  
 FLQCVKNPEDSSCTSEI

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** CD38 CD38 molecule [ Homo sapiens (human) ]

**Official Symbol** CD38

**Synonyms** CD38; CD38 molecule; CD38 antigen (p45); ADP-ribosyl cyclase 1; ADP ribosyl

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cyclase 1; NAD(+) nucleosidase; cADPr hydrolase 1; cyclic ADP-ribose hydrolase 1;  
ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase; T10;

**Gene ID**

952

**mRNA Refseq**

NM\_001775

**Protein Refseq**

NP\_001766

**MIM**

107270

**UniProt ID**

P28907

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