

Recombinant Human CD38 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CD38 protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	300
Description	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.
Form	Lyophilized
Molecular Mass	30.7 kDa
AA Sequence	MANCEFSPVSGDKPCCRLSRRAQLCLGVSILVLILVVVLAVVVPRWRQQWSGPGTT KRFPETVLARCCKYTEIHPEMRHVDQCQSVWDAFKGAFISKHPCNITEEDYQPLMKLG

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TQTVPCNKILLWSRIKDLAQFTQVQRDMFTLEDTLGLYLADDLTWCGEFNTSKINY
 QSCPDWRKDCSNNPVSVFWKTVSRRFAEAACDVVHVMLNGSRSKIFDKNSTFGSV
 EVHNLQPEKVQTLQAWVIHGGREDSRDLCQDPTIKELESIIISKRNIIQFSCCKNIYRPDK
 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 H₂O 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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