

# Active Recombinant Human CD38, Fc-tagged, Biotinylated

**Cat. No.** CD38-573H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The recombinant human CD38-Fc is expressed as a 482-amino acid protein consisting of Arg47 - Ile300 region of CD38 (UniProt accession #P28907) and a C-terminal Fc from human IgG1, which exists as a dimer under non-reducing conditions.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	47-300 a.a.
<b>Form</b>	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier & preservative free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
<b>Bio-activity</b>	Immobilized CD38 binds anti-CD38 monoclonal antibodies, human IgG1, mouse IgG2a and rabbit IgG in a functional ELISA. Converts the enzymatic substrate nicotinamide guanine dinucleotide (NGD+) to cyclic GDP-ribose.
<b>Molecular Mass</b>	Calculated molecular mass (kDa): 54.9; Estimated by SDS-PAGE under reducing condition (kDa): 60-70
<b>AA Sequence</b>	RQQWSGPGTTKRFPETVLARCVKYTEIHPEMRHVDCQSVWDAFKGAFISKHPCNIT EEDYQPLMKLGTQTVPCN KILLWSRIKDLAQFTQVQRDMFTLEDTLLGYLADDLT WCGEFNTSKINYQSCPDWRKDCSNNPVSFVKTVSR RFAEAACDVVHVMLNGSR SKIFDKNSTFGSVEVHNLQPEKVQTLAWVIHGGREDSRDLCQDPTIKELESISK RN IQFSCKNIYRPDKFLQCVPNPEDSSCTSEISTGHTHTCPPCPAPPELLGGPSVFLFPPKP

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KDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV  
 VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT ISKAKGQPREPQVYTLPPSREEM  
 TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSGDSFFLYSK LTVDK  
 SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

**Endotoxin** <0.1 eu per 1 µg of purified recombinant protein determined by the

**Purity** >95% judged by SDS-PAGE under reducing condition

**Storage** The product is shipped at 4°C. Upon receipt, centrifuge the product briefly before opening the vial. It is recommended to store small aliquots at the temperature below -20°C for long-term storage and the product is stable for 3 months. The undiluted protein can be stored at 4°C for no more than 2 weeks. Avoid repeated freeze-thaw cycles.

**Conjugation** Biotin

## GENE INFORMATION

**Gene Name** [CD38 CD38 molecule \[ Homo sapiens \]](#)

**Official Symbol** CD38

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

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<b>Protein Refseq</b>	NP_001766
<b>MIM</b>	107270
<b>UniProt ID</b>	P28907
<b>Chromosome Location</b>	4p15.32
<b>Pathway</b>	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem; Metabolic pathways, organism-specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem;
<b>Function</b>	NAD+ nucleosidase activity; hydrolase activity, acting on glycosyl bonds; nucleotide binding; phosphorus-oxygen lyase activity; receptor activity;

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