Active Recombinant Human CD38, Fc-tagged, Biotinylated

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	47-300 a.a.
Form	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).
Bio-activity	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.
Molecular Mass	Calculated molecular mass (kDa): 54.9; Estimated by SDS-PAGE under reducing condition (kDa): 60-70
AA Sequence	RQQWSGPGTTKRFPETVLARCVKYTEIHPEMRHVDCQSVWDAFKGAFISKHPCNIT EEDYQPLMKLGTQTVPCN KILLWSRIKDLAHQFTQVQRDMFTLEDTLLGYLADDLT WCGEFNTSKINYQSCPDWRKDCSNNPVSVFWKTVSR RFAEAACDVVHVMLNGSR SKIFDKNSTFGSVEVHNLQPEKVQTLEAWVIHGGREDSRDLCQDPTIKELESIISK RN IQFSCKNIYRPDKFLQCVKNPEDSSCTSEISTGTHTCPPCPAPELLGGPSVFLFPPKP

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	KDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT ISKAKGQPREPQVYTLPPSREEM TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSK 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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Protein Refseq	NP_001766
MIM	107270
UniProt ID	P28907
Chromosome Location	4p15.32
Pathway	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;
Function	NAD+ nucleosidase activity; hydrolase activity, acting on glycosyl bonds; nucleotide binding; phosphorus-oxygen lyase activity; receptor activity;

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