

# Active Recombinant Human CD38 Protein, Fc-tagged, Alexa Fluor 647 conjugated

**Cat. No.** CD38-574HAF647    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	The Alexa Fluor 647 conjugated 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>	HEK293
<b>ProteinLength</b>	47-300 a.a.
<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 SKIFDKNSTFGSVEVHNLQPEKVQTLAWVIHGGREDSRDLCQDPTIKELESIIISK RN IQFSCKNIYRPDKFLQCVKNPEDSSCTSEISTGHTHTCPPCPAPPELLGGPSVFLFPPKP KDTLMISRTPEVTC VVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRV

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

VSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKT ISKAKGQPREPQVYTLPPSREEM  
TKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTTPVLDSDGSFFLYSK LTVDK  
SRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

**Endotoxin** < 0.1 EU/ µg of purified recombinant protein determined by the LAL method

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

**Characteristic**  
Disulfide-linked homodimer  
Labeled with Alexa Fluor 647 via amines  
Excitation = 650 nm  
Emission = 668 nm

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

**Storage Buffer** Supplied at 0.5 mg/ml in sterile PBS pH 7.4 (carrier & preservative free).

**Conjugation** Alexa Fluor 647

## 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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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



ADP-ribosyl cyclase/cyclic ADP-ribose hydrolase; T10;

**Gene ID** 952

**mRNA Refseq** NM\_001775

**Protein Refseq** NP\_001766

**MIM** 107270

**UniProt ID** P28907

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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