

Active Recombinant Human CD276 Protein, Fc-tagged, Alexa Fluor 488 conjugated

Cat. No. CD276-542HAF488 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Alexa Fluor 488 conjugated recombinant human B7-H3-Fc fusion is expressed as a 448 amino acid protein consisting of Leu29 - Ala248 region of B7-H3 (UniProt accession #Q5ZPR3 - isoform 2) and a C-terminal Fc fusion from human IgG1, which exists as a dimer under non-reducing condition.
Species	Human
Source	HEK293
ProteinLength	29-248 a.a.
Bio-activity	Inhibits anti-CD3-induced proliferation of stimulated human T cells. Binds anti-B7-H3 monoclonal antibodies, human IgG1 and rabbit IgG in a functional ELISA.
Molecular Mass	Calculated molecular mass 49.2 kDa; estimated by SDS-PAGE under reducing condition 65-70 kDa probably due to glycosylation
AA Sequence	LEVQVPEDPVVALVGTDATLCCSFSPGFSLAQLNLIWQLTDTKQLVHSFAEGQD QGSAYANRTALFPDLLAQ GNASLRLQVRVVADEGSFTCFVSIRDFGSAAVSLQVAA PYSKPSMTLEPNKDLRPGDTVTITCSSYRGYPEAEV FWQDGQGVPLTGNTVTSQM ANEQGLFDVHSLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEAST GTHTCPPCPAPELLGGPSVFLFPPKPKDITLMISRTPEVTCVVVDVSHEDPEVKFNW YVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV KGFYPSDIAVEWESNGQPEN

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	NYKTTTPVLDSGDSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSL S PGK
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 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 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 free).
Conjugation	Alexa Fluor 488

GENE INFORMATION

Gene Name	CD276 CD276 molecule [Homo sapiens]
Official Symbol	CD276
Synonyms	CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4lg-B7-H3;

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Gene ID	80381
mRNA Refseq	NM_001024736
Protein Refseq	NP_001019907
MIM	605715
UniProt ID	Q5ZPR3

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