

Active Recombinant Human CD276, Fc-tagged, Biotinylated

Cat. No. CD276-543H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The 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	Human Cells
ProteinLength	29-248 a.a.
Form	Supplied at 0.5 mg/ml in sterile PBS pH7.4 (carrier free). The purified recombinant protein was labeled with Biotin (3-5 Biotin per molecule).
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 GNASRLRQVRVADEGSFTCFVSIRDFGSAAVSLQVAA PYSKPSMTLEPNKDLRPGDVTITCSSYRGYPEAEV FWQDGQGVPPLTGNVTTSQM ANEQGLFDVHSLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPEAST GTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW

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YVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE
KTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLV KGFYPSDIAVEWESNGQPEN
NYKTTTPVLDSGDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSL S
PGK

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 [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;

Gene ID [80381](#)

mRNA Refseq [NM_001024736](#)

Protein Refseq [NP_001019907](#)

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MIM	605715
UniProt ID	Q5ZPR3
Chromosome Location	15q23-q24
Pathway	Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;
Function	protein binding; receptor binding;

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