

## Active Recombinant Human CD276, Fc-tagged

**Cat. No.** CD276-542H    **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).

**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**    LEVQVPEDPVVALVGTDLCCSFSPPEPGFSLAQLNLIWQLTDTKQLVHSFAEGQD  
 QGSAYANRTALFPDLLAQ GNASRLRQRVVADEGSFTCFVSIRDFFGSAAVSLQVAA  
 PYSKPSMTLEPNKDLRPGDVTITCSSYRGYPEAEV FWQDGGVPLTGNVTTTSQM  
 ANEQGLFDVHSLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPEAST  
 GTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNW  
 YVDGVEVHNAKTKPREEQ YNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIE

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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.

## 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; 4Ig-B7-H3;

**Gene ID** [80381](#)

**mRNA Refseq** [NM\\_001024736](#)

**Protein Refseq** [NP\\_001019907](#)

**MIM** [605715](#)

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

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