

## CD276/B7-H3 Protein, Human (HEK293, Myc-hFc)

<b>Cat. No.:</b>	HY-P700448
<b>Synonyms:</b>	CD276; CD276 molecule; CD276 antigen; B7 H3; B7H3; B7RP 2; B7 homolog 3; costimulatory molecule; B7-H3; B7RP-2; 4lg-B7-H3;
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q5ZPR3 (L29-G245)
<b>Gene ID:</b>	80381
<b>Molecular Weight:</b>	53.4 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L E V Q V P E D P V   V A L V G T D A T L   C C S F S P E P G F   S L A Q L N L I W Q L T D T K Q L V H S   F A E G Q D Q G S A   Y A N R T A L F P D   L L A Q G N A S L R L Q R V R V A D E G   S F T C F V S I R D   F G S A A V S L Q V   A A P Y S K P S M T L E P N K D L R P G   D T V T I T C S S Y   Q G Y P E A E V F W   Q D G Q G V P L T G N V T T S Q M A N E   Q G L F D V H S I L   R V V L G A N G T Y   S C L V R N P V L Q Q D A H S S V T I T   P Q R S P T G           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, 6% Trehalose, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	<p>The CD276/B7-H3 protein is suggested to play a multifaceted role in the regulation of T-cell-mediated immune responses, potentially acting as a protective factor in tumor cells by inhibiting natural-killer-mediated cell lysis and serving as a marker for the detection of neuroblastoma cells. Additionally, CD276/B7-H3 may be involved in the development of acute and chronic transplant rejection, contributing to the regulation of lymphocytic activity at mucosal surfaces. Notably, it could play a crucial role in providing the placenta and fetus with an immunologically suitable environment throughout pregnancy. Both isoform 1 and isoform 2 of CD276/B7-H3 appear redundant in their ability to modulate CD4 T-cell responses, with isoform 2 demonstrated to enhance the induction of cytotoxic T-cells and selectively stimulate interferon-gamma</p>
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production in the presence of T-cell receptor signaling. The interaction with TREML2 is identified as enhancing T-cell activation, highlighting the diverse roles CD276/B7-H3 may play in immune regulation and cellular responses.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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