

## CD276/B7-H3 Protein, Human (433a.a, HEK293, His)

<b>Cat. No.:</b>	HY-P70652
<b>Synonyms:</b>	CD276; B7H34Ig-B7-H3; B7-H3; B7 homolog 3; CD276 antigen; CD276 molecule; Costimulatory molecule
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	Q5ZPR3 (L29-T461)
<b>Gene ID:</b>	80381
<b>Molecular Weight:</b>	65-90 kDa

### PROPERTIES

#### AA Sequence

LEVQVPEDPV	VALVGTDATL	CCSFSPPEPGF	SLAQLNLIWQ
LTDTKQLVHS	FAEGQDQGSA	YANRTALFPD	LLAQGNASLR
LQVRVVADEG	SFTCFVSIIRD	FGSAAVSLQV	AAPYSKPSMT
LEPNKDLRPG	DTVTITCSSY	QGYPEAEVFW	QDGGQGVPLTG
NVTTSQMANE	QGLFDVHSIL	RVVLGANGTY	SCLVRNPVLQ
QDAHSSVTIT	PQRSPTGAVE	VQVPEDPVVA	LVGTDATLRC
SFSPPEPGFSL	AQLNLIWQLT	DTKQLVHSFT	EGRDQGSAYA
NRTALFPDLL	AQGNASLRLLQ	RVRVADEGSF	TCFVSI RDFG
SAAVSLQVAA	PYSKPSMTLE	PNKDLRPGDT	VTITCSSYRG
YPEAEVFWQD	GQGVPLTGNV	TTSQMANEQG	LFDVHSVLRV
VLGANGTYS C	LVRNPVLQQD	AHGSVTITGQ	PMT

**Appearance** Lyophilized powder.

**Formulation** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Endotoxin Level** <1 EU/µg, determined by LAL method.

**Reconstitution** It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH<sub>2</sub>O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

**Storage & Stability** 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.

**Shipping** Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

**Background** The CD276/B7-H3 protein is suggested to play a multifaceted role in the regulation of T-cell-mediated immune responses,

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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 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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