

## CD276/B7-H3 Protein, Cynomolgus (HEK293, Fc)

|                          |  |
|--------------------------|--|
| <b>Cat. No.:</b>         | HY-P70126  |
| <b>Synonyms:</b>         | rCynCD276/B7-H3, Fc; CD276 antigen; CD276; B7 homolog 3; B7-H3; CD276; Cynomolgus CD276 Molecule |
| <b>Species:</b>          | Cynomolgus   |
| <b>Source:</b>           | HEK293   |
| <b>Accession:</b>        | XP_015308534.1 (L29-E465)  |
| <b>Gene ID:</b>          | 102131295  |
| <b>Molecular Weight:</b> | 100-123 kDa  |

### PROPERTIES

|                                |  |
|--------------------------------|--|
| <b>AA Sequence</b>             | <pre> LEVQVPEDPV   VALVGTDATL   RCSFSPEPGF   SLAQLNLIWQ LTDTKQLVHS   FTEGRDQGSA   YANRTALFLD   LLAQGNASLR LQVRVVADEG   SFTCFVSIIRD   FGSAAVSLQV   AAPYSKPSMT LEPNKDLRPG   DTVTITCSSY   RGYPEAEVFW   QDGGGAPLTG NVTTSQMANE   QGLFDVHSV L   RVVLGANGTY   SCLVRNPVLQ QDAHGSITIT   PQRSP TGAVE   VQVPEDPVVA   LVGTDATLRC SFSPEPGFSL   AQLNLIWQLT   DTKQLVHSFT   EGRDQGSAYA NRTALFLDLL   AQGNASLRLQ   RRVVADEGSF   TCFVSI RDFG SAAVSLQVAA   PYSKPSMTLE   PNKDLRPGDT   VTITCSSYRG YPEAEVFWQD   GQGAPLTGNV   TTSQMANEQG   LFDVHSVLRV VLGANGTYS C   LVRNPVLQQD   AHGSVTITGQ   PMTFPPE           </pre> |
| <b>Biological Activity</b>     | Measured by its binding ability in a functional ELISA. When immobilized Cynomolgus CD276/B7-H3- Fc at 2 µg/mL (100 µl/well), can bind Anti-Human B7-H3 with the ED <sub>50</sub> < 33.31 ng/mL.  |
| <b>Appearance</b>              | Lyophilized powder.  |
| <b>Formulation</b>             | Lyophilized from a 0.2 µm filtered solution of PBS, 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).  |
| <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

### Background

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 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.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA