

## CD276/B7-H3 Protein, Cynomolgus (437a.a, HEK293, His)

Cat. No.:	HY-P70125
Synonyms:	rCynCD276/B7-H3, His; CD276 antigen; CD276; B7 homolog 3; B7-H3; CD276; Cynomolgus CD276
Species:	Cynomolgus
Source:	HEK293
Accession:	XP_015308534.1 (L29-E465)
Gene ID:	102131295
Molecular Weight:	70-90 kDa

### PROPERTIES

AA Sequence	<div> <div> L E V Q V P E D P V  L T D T K Q L V H S  L Q R V R V A D E G  L E P N K D L R P G  N V T T S Q M A N E  Q D A H G S I T I T  S F S P E P G F S L  N R T A L F L D L L  S A A V S L Q V A A  Y P E A E V F W Q D  V L G A N G T Y S C </div> <div> V A L V G T D A T L  F T E G R D Q G S A  S F T C F V S I R D  D T V T I T C S S Y  Q G L F D V H S V L  P Q R S P T G A V E  A Q L N L I W Q L T  A Q G N A S L R L Q  P Y S K P S M T L E  G Q G A P L T G N V  L V R N P V L Q Q D </div> <div> R C S F S P E P G F  Y A N R T A L F L D  F G S A A V S L Q V  R G Y P E A E V F W  R V V L G A N G T Y  V Q V P E D P V V A  D T K Q L V H S F T  R V R V A D E G S F  P N K D L R P G D T  T T S Q M A N E Q G  A H G S V T I T G Q </div> <div> S L A Q L N L I W Q  L L A Q G N A S L R  A A P Y S K P S M T  Q D G Q G A P L T G  S C L V R N P V L Q  L V G T D A T L R C  E G R D Q G S A Y A  T C F V S I R D F G  V T I T C S S Y R G  L F D V H S V L R V  P M T F P P E </div> </div>
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.**

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