

## CD276/B7-H3 Protein, Rat (HEK293, His)

Cat. No.:	HY-P74314
Synonyms:	B7H3; B7-H3B7 homolog 3; CD276; Costimulatory molecule
Species:	Rat
Source:	HEK293
Accession:	Q7TPB4 (V29-F244)
Gene ID:	315716
Molecular Weight:	Approximately 43 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
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	CD276/B7-H3, a multifaceted protein, exerts regulatory influence over T-cell-mediated immune responses and the progression of acute and chronic transplant rejection. Beyond its immunomodulatory role, it may contribute positively to bone formation, demonstrating a dual function at the bone-immune interface. Moreover, CD276 emerges as a key player in antitumor immunity by activating both acquired and innate immune responses, resulting in the elimination of tumor cells through natural killer cell and CD8 T-cell-dependent mechanisms. Notably, its interaction with TREML2 enhances T-cell activation, further underscoring its intricate involvement in immune regulation.
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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

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