

# Recombinant Human B7-H3/CD276 Protein

Catalog No.: RP00635 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	80381	Q5ZPR3-2

### Tags

C-hFc

### Synonyms

B7H3; B7-H3; CD276; PSEC0249;  
UNQ309; PRO352; B7 homolog 3; CD276

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Calculated MW	Observed MW
50.1 kDa	60-70 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method

### Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

B7-H3, a member of the B7 family of immunomodulatory molecules, is overexpressed in a wide range of solid cancers. B7-H3 binds to activated T cells via an as yet unidentified receptor. In assays using sub-optimal amount so anti-CD3 stimulation, 2Ig?B7?H3 enhances T cell proliferation, T cell interferon-gamma (IFN-gamma) production, and cytotoxic T cells induction.

## Basic Information

### Description

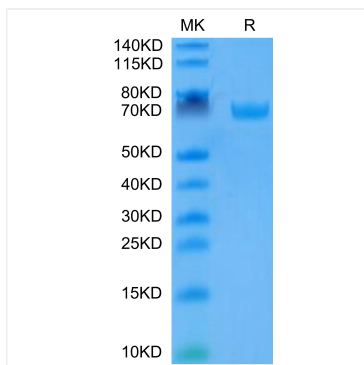
Recombinant Human B7-H3/CD276 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu29-Pro245) of Human B7-H3/CD276 (Accession #Q5ZPR3-2) fused with a C-hFc tag at the C-terminus.

### Bio-Activity

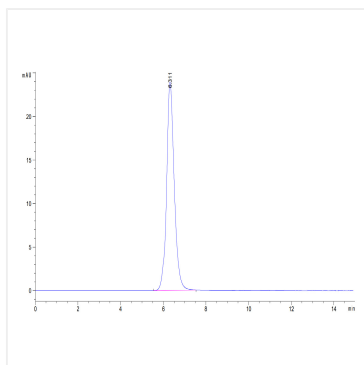
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

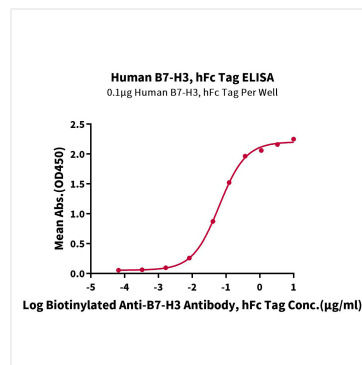
## Validation Data



Human B7-H3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Human B7-H3 is greater than 95% as determined by SEC-HPLC.



Immobilized Human B7-H3, hFc Tag at 1 µg/mL (100 µL/Well) on the plate. Dose response curve for Biotinylated Anti-B7-H3 Antibody, hFc Tag with the  $EC_{50}$  of 62.9ng/mL determined by ELISA.