Recombinant Human B7-H3 (4Ig)/B7-H3b/CD276 Protein

Catalog No.: RP00469

Sequence Information

Species	Gene ID
Human	80381
Swiss Prot	**Tags**
Q5ZPR3-1	C-hFc

Synonyms
B7-H3; CD276; PSEC0249; 4Ig-B7-H3; UNQ309; PRO352; B7 homolog 3; CD276

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.
Calculated MW	**Observed MW**
73.4 kDa	80-110 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 (4Ig)/B7-H3b/CD276 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly27-Thr461) of Human B7-H3 (4Ig)/B7-H3b/CD276 (Accession #Q5ZPR3-1) fused with a C-hFc tag at the C-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

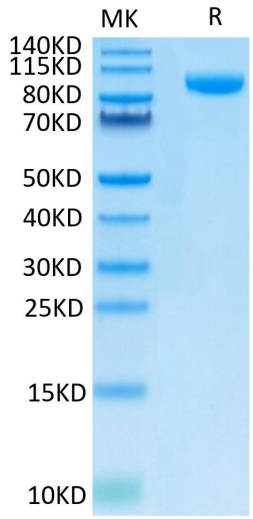
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

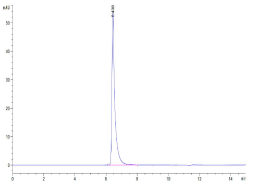
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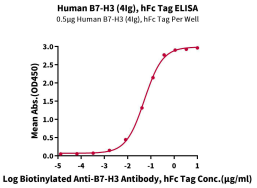
Validation Data



Recombinant Human B7-H3 (4Ig)/B7-H3b/CD276 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Human B7-H3 (4Ig) is greater than 95% as determined by SEC-HPLC.



Immobilized Human B7-H3 (4Ig), hFc Tag at 5 μg/mL (100 μL/Well) on the plate. Dose response curve for Biotinylated Anti-B7-H3 Antibody, hFc Tag with the EC_{50} of 52.3ng/mL determined by ELISA.