

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

Catalog No.: RP00469 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	80381	Q5ZPR3-1

Tags

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 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 (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.

Bio-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

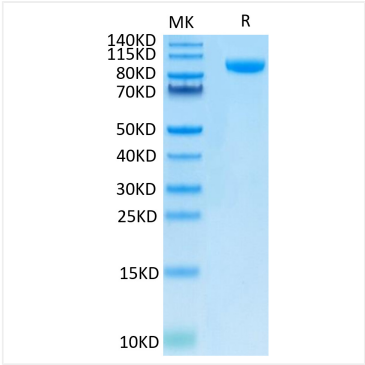
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes

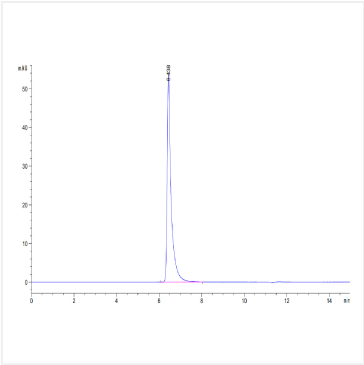
For your safety and health, please wear a lab coat and disposable gloves for handling.



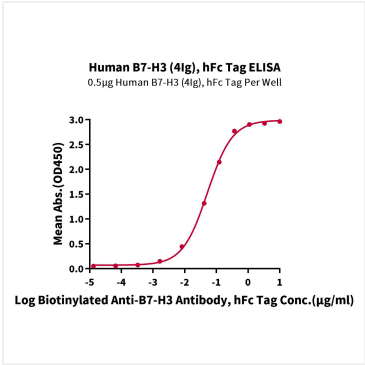
Validation Data



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 EC₅₀ of 52.3ng/mL determined by ELISA.