

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

Catalog No.: RP00469F **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	90-110 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.

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

FITC-Labeled 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

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.

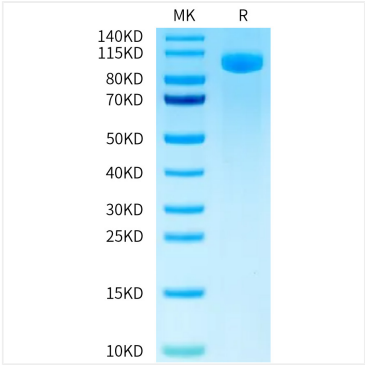
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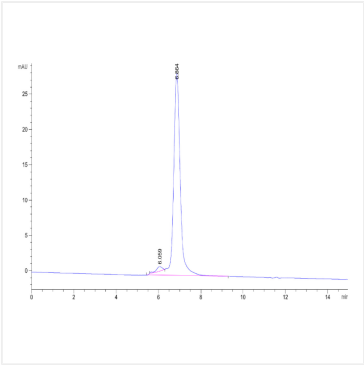
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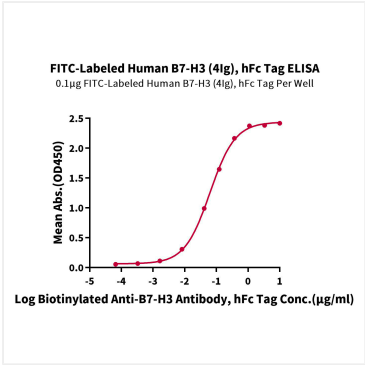
Validation Data



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



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



Immobilized FITC-Labeled Human B7-H3 (4Ig), 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 EC₅₀ of 62.5ng/mL determined by ELISA.