

Recombinant Human B7-H3 (4lg)/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; 4lg-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.

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, 2lg?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 (4lg)/B7-H3b/CD276 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly27-Thr461) of Human B7-H3 (4lg)/B7-H3b/CD276 (Accession #Q5ZPR3-1) fused with a C-hFc tag at the C-terminus.

Bio-Activity

Shipping

The product is shipped at ambient temperature. 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.

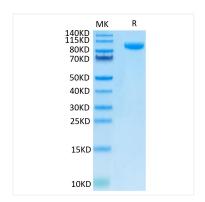
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

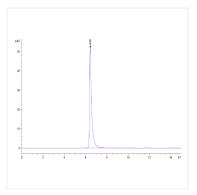
Operational Notes

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

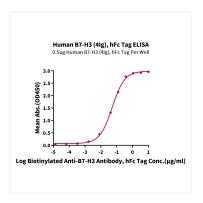
Validation Data



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



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



Immobilized Human B7-H3 (4lg), hFc Tag at 5 μ g/mL (100 μ L/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.