

Biotinylated Recombinant Human BTLA/CD272 Protein

Catalog No.: RP02572B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 151888 07Z6A9-1

Tags C-His&Avi

Synonyms

CD272; BTLA; BTLA1; FLJ16065; MGC129743

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by HPLC.

Calculated MW Observed MW

16.7 kDa 38-50 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube 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

a 400-999-6126

Background

B- and T-lymphocyte attenuator (BTLA; CD272) is a 35 kDa type I transmembrane glycoprotein in the CD28 family of T cell costimulatory molecules. BTLA is a inhibitory receptor on lymphocytes that negatively regulates antigen receptor signaling via PTPN6/SHP-1 and PTPN11/SHP-2 . BTLA may interact in cis (on the same cell) or in trans (on other cells) with TNFRSF14.

Basic Information

Description

Biotinylated Recombinant Human BTLA/CD272 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Lys31-Ser150) of Human BTLA/CD272 fused with His tag and Avi 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.

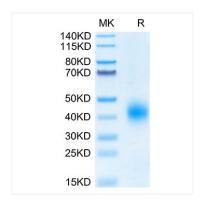
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

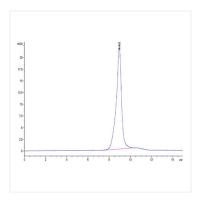
Operational Notes

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

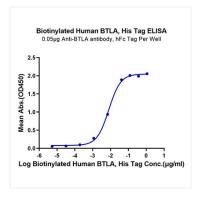
Validation Data



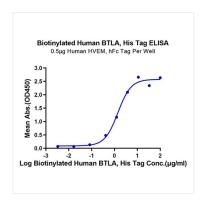
Biotinylated Recombinant Human BTLA/CD272 Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Biotinylated Human BTLA is greater than 95% as determined by SEC-HPLC



Immobilized Anti-BTLA Antibody, hFc Tag at $0.5\mu g/ml$ (100 μ l/well) on the plate. Dose response curve for Biotinylated Human BTLA, His Tag with the EC₅₀ of 8.0ng/ml determined by ELISA.



Immobilized Human HVEM, hFc Tag at 5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Biotinylated Human BTLA, His Tag with the EC₅₀ of 1.4 μ g/ml determined by ELISA.