

BTLA Protein, Human, Recombinant (His & Avi)

General Information

Synonyms: BTLA;BTLA1;FLJ16065;CD272;MGC129743

Protein Construction: Lys31-Ser150

Species: Human

Expression Host: HEK293 Cells

Accession: Q7Z6A9-1

Molecular Weight: 16.7 kDa (predicted). Due to glycosylation, the protein migrates to 35-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity: 1. Immobilized Human BTLA, His Tag at 0.5 μ g/ml (100 μ l/Well) on the plate. Dose response curve for Anti-BTLA Antibody, hFc Tag with the EC50 of 9.1ng/ml determined by ELISA (QC Test).
2. Anti-BTLA antibody captured on Protein A chip, can bind Human BTLA, His Tag with an affinity constant of 0.99nM as determined in a SPR assay.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: < 1 EU/ μ g by the LAL method.

Formulation: Lyophilized from a solution filtered through a 0.22 μ m filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein 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 an 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.

Reference

Haymaker C L, et al. BTLA marks a less-differentiated tumor-infiltrating lymphocyte subset in melanoma with enhanced survival properties[J]. *Oncolmmunology*, 2015, 4(8):e1014246.

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