

# Active Recombinant Human BTLA Protein, Mouse IgG2a Fc Tagged

**Cat. No.** BTLA-193H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human BTLA (31-150), Mouse IgG2a Fc Tag is expressed from human 293 cells (HEK293). It contains AA Lys 31-Ser 150 (Accession # AAP44003.1). This protein carries a mouse IgG2a Fc tag at the C-terminus. Predicted N-terminus: Lys 31                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 31-150 aa                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | B- and T-lymphocyte attenuator (BTLA) is also known as B- and T-lymphocyte-associated protein, CD antigen CD272. BTLA contains one Ig-like V-type (immunoglobulin-like) domain. As a lymphocyte inhibitory receptor, BTLA/CD272 inhibits lymphocytes during immune response. BTLA/CD272 can interact with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2, and interact with TNFRSF14/HVEM. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.                                                                                                                                                                                                                                                     |
| <b>Bio-activity</b>     | Immobilized Human HVEM, His Tag at 5 µg/mL (100 µL/well) can bind Human BTLA (31-150), Mouse IgG2a Fc Tag with a linear range of 10-156 ng/mL.                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 40.6 kDa. The protein migrates as 50-60 kDa                                                                                                                                                                                                                                                                                                                 |

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under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.1 EU/μg by the LAL method/rFC method.

**Purity**

>95% as determined by SDS-PAGE. >95% as determined by SEC-MALS.

**Storage**

This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.

**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name**

BTLA B and T lymphocyte associated [ Homo sapiens (human) ]

**Official Symbol**

BTLA

**Synonyms**

BTLA; B and T lymphocyte associated; B- and T-lymphocyte attenuator; BTLA1; CD272; B and T lymphocyte attenuator; B- and T-lymphocyte-associated protein; FLJ16065; MGC129743;

**Gene ID**

151888

**mRNA Refseq**

NM\_001085357

**Protein Refseq**

NP\_001078826

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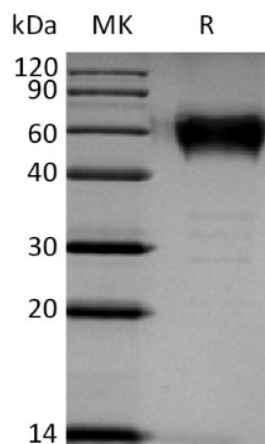
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MIM 607925

UniProt ID Q7Z6A9

SDS-PAGE



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