

# Recombinant Human B- and T-Lymphocyte Attenuator/BTLA/CD272 (C-mFc)

Catalog Number:PKSH033861

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

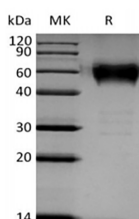
## Description

|                                    |                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------|
| <b>Synonyms</b>                    | B- and T-Lymphocyte Attenuator;B- and T-Lymphocyte-Associated Protein;CD272;BTLA |
| <b>Species</b>                     | Human                                                                            |
| <b>Expression Host</b>             | HEK293 Cells                                                                     |
| <b>Sequence</b>                    | Lys31-Leu150                                                                     |
| <b>Accession</b>                   | Q7Z6A9-2                                                                         |
| <b>Calculated Molecular Weight</b> | 40.4 kDa                                                                         |
| <b>Observed molecular weight</b>   | 50-70 kDa                                                                        |
| <b>Tag</b>                         | C-mFc                                                                            |

## Properties

|                       |                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                        |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.             |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                                      |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

B- and T-Lymphocyte Attenuator (BTLA) is a single-pass type I membrane protein containing 1 Ig-like V-type (immunoglobulin-like) domain. BTLA expression is induced during activation of T cells, and BTLA remains expressed on Th1 cells but not Th2 cells. Like PD1 and CTLA4, BTLA interacts with a B7 homolog, B7H4. However, unlike PD-1 and CTLA-4, BTLA displays T-Cell inhibition via interaction with tumor necrosis family receptors (TNF-R), not just the B7 family of cell surface receptors. BTLA is a lymphocyte inhibitory receptor that inhibits lymphocytes during immune response. BTLA also is a ligand for tumor necrosis factor (receptor) superfamily, member 14 (TNFRSF14), also known as herpes virus entry mediator (HVEM). BTLA-HVEM complexes negatively regulate T-cell immune responses.

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