

Synonym

BTLA,CD272

Source

Human BTLA, His Tag (BTA-H52E0) is expressed from human 293 cells (HEK293). It contains AA Lys 31 - Ser 150 (Accession # AAP44003.1).

Predicted N-terminus: Lys 31

Molecular Characterization

BTLA(Lys 31 - Ser 150)
AAP44003.1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 15.6 kDa. The protein migrates as 25-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

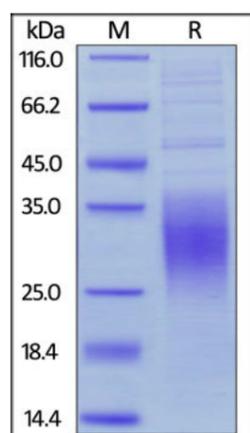
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

Human BTLA, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Background

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.

References

- (1) [Watanabe N., et al., 2003, Nat. Immunol. 4:670-679.](#)

(2) [Gavrieli M., et al., 2003, Biochem. Biophys. Res. Commun. 312:1236-1243.](#)

(3) [Sedy J.R., et al., 2005, Nat. Immunol. 6:90-98.](#)

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.