

Active Recombinant Human BTLA (M105V, G138S, V148M) Protein, Fc Tagged

Cat. No. BTLA-11238H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BTLA (31-150) (M105V, G138S, V148M), Fc Tag is expressed from human 293 cells (HEK293). It contains AA Lys 31-Ser 150 (Accession # AAP44003.1 (M105V, G138S, V148M)). This protein carries a human IgG1 Fc tag at the C-terminus. Predicted N-terminus: Lys 31
Species	Human
Source	HEK293
ProteinLength	31-150 aa
Description	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.
Form	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.
Bio-activity	Immobilized Human HVEM, His Tag at 5 µg/mL (100 µL/well) can bind Human BTLA (31-150) (M105V, G138S, V148M), Fc Tag with a linear range of 0.02-0.8 ng/mL.

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Molecular Mass	The protein has a calculated MW of 40.2 kDa. The protein migrates as 50-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
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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MIM	607925
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UniProt ID	Q7Z6A9
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