PRODUCT INFORMATION

Expression system Baculovirus

Domain 31-157aa

UniProt No. Q7Z6A9

NCBI Accession No. NP_861445.3

Alternative Names B- and T-lymphocyte attenuator isoform 1, BTLA, BTLA1, CD272

PRODUCT SPECIFICATION

Molecular Weight 15.7 kDa (136aa)

Concentration 0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level < 1 EU per 1ug of protein (determined by LAL method)

Tag His-Tag

Application SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

BTLA, also known as B- and T-lymphocyte attenuator isoform 1, is an inhibitory molecule which belongs to the Ig superfamily. It is a type 1 transmembrane glycoprotein in the CD28 family of T cell costimulatory molecules. This protein is a third inhibitory receptor on T lymphocytes with similarities to cytotoxic T lymphocyte-associated antigen 4 (CTLA-4) and programmed death 1 (PD-1). Also, it 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. Recombinant human BTLA, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

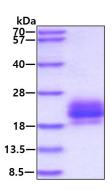
<ADP>KESCDVQ LYIKRQSEHS ILAGDPFELE CPVKYCANRP HVTWCKLNGT TCVKLEDRQT SWKEEKNISF FILHFEPVLP NDNGSYRCSA NFQSNLIESH STTLYVTDVK SASERPSKDE MASRPWLLYS <HHHHHH>

General References

Watanabe N., et al, (2003) Nat. Immunol. 4:670-679. Gavrieli M., et al, (2003) Biochem. Biophys. Res. Commun. 312:1236-1243.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

