Recombinant human BTLA protein

Catalog Number: ATGP3717

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)

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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

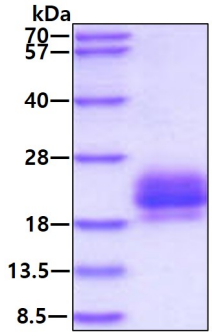
<ADP>KESCDVQ LYIKRQSEHS ILAGDPFELE CPVKYCANRP HVTWCKLNGT TCVKLEDRQT SWKEEKNISF FILHFEPVLP NDNGSYRCSA NFQSNLIESH STTLYVTDVK SASERPSKDE MASRPWLLYS <HHHHHH>

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.