Recombinant human CD3 delta/CD3D protein

Catalog Number: ATGP3783

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
22-105aa

UniProt No.
P04234

NCBI Accession No.
NP_000723

Alternative Names
T-cell surface glycoprotein CD3 delta chain isoform A, CD3 delta subunit of T-cell receptor complex, T3D, CD3d antigen, Delta polypeptide, TiT3 complex, CD3d molecule, delta, CD3-TCR complex, CD3-DELTA

PRODUCT SPECIFICATION

Molecular Weight
36.5 kDa (323aa)

Concentration
0.5mg/ml (determined by Bradford assay)

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
hIgG-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
CD3D, also known as T-cell surface glycoprotein CD3 delta chain isoform A, is a single-pass type 1 membrane protein. This protein together with CD3-gamma, CD3-epsilon and CD3-zeta, and the T-cell receptor (TCR) alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. When antigen presenting

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cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. Also, this protein plays an essential role in adaptive immune response and plays an essential role in thymocyte differentiation. Recombinant human CD3D, fused to hIgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

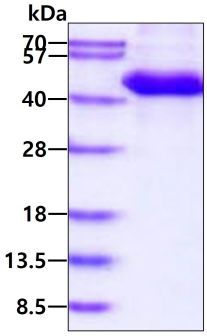
FKIPIEELED RVFVNCNTSI TWVEGTVGTL LSDITRLDLG KRILDPRGIY RCNGTDIYKD KESTVQVHYR MCQSCVELDP ATVA<LEPKSC DKTHTCPPCP APELLGGPSV FLFPPKPKDT LMISRTPEVT CVVVDVSHED PEVKFNWYVD GVEVHNAKTK PREEQYNSTY RVVSVLTVLH QDWLNGKEYK CKVSNKALPA PIEKTISKAK GQPREPQVYT LPPSRDELTK NQVSLTCLVK GFYPSDIAVE WESNGQPENN YKTTPPVLDS DGSFFLYSKL TVDKSRWQQG NVFSCSVMHE ALHNHYTQKS LSLSPGKHHH HHH>

General References

Hori T., et al, (1991) Int. Immunol. 3:353-357.
Phillips JH., et al, (1992) J. Exp. Med. 175:1055-1066.

DATA

SDS-PAGE



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