

Recombinant human CD4 protein

Catalog Number: ATGP3374

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

26-396aa

UniProt No.

P01730

NCBI Accession No.

NP_000607

Alternative Names

T-cell surface glycoprotein CD4, CD4, CD4mut

PRODUCT SPECIFICATION

Molecular Weight

42.1 kDa (377aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 95% 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

CD4, also known as T-cell surface glycoprotein CD4, is a glycoprotein expressed on the surface of T helper cells, regulatory T cells, monocytes, macrophages, and dendritic cells. It interacts directly with MHC class II molecules on the surface of the antigen presenting cell via its extracellular domain. It is a co-receptor that assists the T cell receptor (TCR) to activate its T cell following an interaction with an antigen presenting cell. Recombinant human

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CD4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

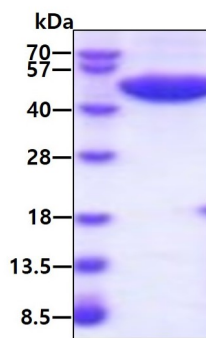
KKVVLGKKGD TVELTCTASQ KKSIIQFHWKN SNQIKILGNQ GSFLTKGPSK LNDRADSRRS LWDQGNFPLI IKNLKIEDSD
TYICEVEDQK EEVQLLVFGL TANS DTHLLQ GQSLTLTLES PPGSSPSVQC RSPRGKNIQG GKTL SVSQLE LQDSGTWTCT
VLQNQKKVEF KIDIVVLA FQ KASSIVYKKE GEQVEFSFPL AFTVEKLTGS GELWWQAERA SSSKSWITFD LKNKEVSVKR
VTQDPKLQMG KKLPLHLTLP QALPQYAGSG NLTALAEAKT GKLHQEVNLV VMRATQLQKN LTCEVWGPTS PKLMLSLKLE
NKEAKVSKRE KAVWVLNPEA GMWQCLLSDS GQVLLESNIK VLPTWSTPVQ P<HHHHHH>

General References

Singh SK., et al. (2012) FEBS J. 279:3705-3714.
Farrar WL., et al. (1988) Crit Rev Immunol. 8:315-339.

DATA

SDS-PAGE



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