

Recombinant Human CD4 protein, His-tagged

Cat. No. CD4-1559H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD4 aa. (Lys26~Trp390) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Lys26~Trp390
Description	This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation, and may function as an important mediator of indirect neuronal damage in infectious and immune-mediated diseases of the central nervous system. Multiple alternatively spliced transcript variants encoding different isoforms have been identified in this gene.
Form	Freeze-dried powder
Molecular Mass	44kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method).

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Purity	>95%
Characteristic	The isoelectric point is 9.2.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Homo sapiens (human)]
Official Symbol	CD4
Synonyms	CD4mut; CD4 antigen (p55); CD4 receptor; T-cell surface antigen T4/Leu-3; T-cell surface glycoprotein CD4

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Gene ID	920
mRNA Refseq	NM_000616.4
Protein Refseq	NP_000607.1
UniProt ID	P01730
SDS-PAGE	