Active Recombinant Human CD4 Protein, His-tagged

Cat. No. CD4-58H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CD4 dimer contains CD4 extracellular 4-domains with a homodimer motif and a His tag at the C-terminus.
Species	Human
Source	HEK293T
ProteinLength	26-396 aa
Description	CD4 is type 1 integral membrane glycoprotein protein on a T cell surface, also known as known as T-cell surface antigen T4/Leu-3. CD4 contains an extracellular domain, a transmembrane domain and a cytoplasmic domain. The extracellular domain has 4 immunoglobulin-like (Ig-like) domains: one Ig-like V-type domain and three Ig-like C2-type domains. The CD4 extracellular domain is responsible for MHC class-II antigen/T-cell receptor interaction and T cell activation. CD4 is also known as interleukin 16 receptor (IL16R). The IL16 cytokine binds CD4 to activate a downstream signalling cascade. CD4 is also the primary receptor for the human immunodeficiency virus (HIV) envelope glycoprotein gp120 to mediate HIV infection and entry into host T cells, as the underlying cause of acquired immune deficiency syndrome (AIDS).
Molecular Mass	112 kDa
Homodimer/Heterodimer	Homodimer

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Purity	>90% dimer form as determined by SDS-PAGE non-reducing conditions
Application	Verified Applications: ELISA for antibody binding and gp120 binding. Suggested Applications: SPR binding measurements, B cell sorting, immunogen for animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.2μm filtered PBS, pH 7.4, no preservatives
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	920
Gene Name	CD4 CD4 molecule [Homo sapiens (human)]
Official Symbol	920
Synonyms	CD4; CD4 molecule; CD4 antigen (p55), T cell surface glycoprotein CD4; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3; CD4mut;
mRNA Refseq	NM_000616
Official Symbol 2	CD4
Gene ID 2	920
Gene Name 2	CD4 CD4 molecule [Homo sapiens (human)]

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mRNA Refseq 2	NM_000616
Protein Refseq 2	NP_000607
MIM 2	186940
UniProt ID 2	A0A4Y5UGE4
Bioactivity-Antibody Binding	EC50 range of 3.46-13.85 ng/mL
Bioactivity-Ligand Binding	HIV-1 gp120 ligand binding (EC50 range of 11.45-45.8 ng/mL)
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: CD4 dimer under non-reducing condition

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