CD4, Fc Fusion, Avi-Tag Recombinant

Catalog: 101861 Lot: 230627

Product Information

Description: Recombinant human CD4, encompassing amino acids 26-396, corresponding to the

extracellular domain. This construct includes an Fc-domain from human IgG1 fused at

the C-terminus, followed by an Avi-tag™. This protein was affinity purified.

Background: CD4 (cluster of differentiation 4) is part of the immunoglobulin superfamily and is found

in T-helper cells, monocytes, macrophages, and dendritic cells. It is a co-receptor in the TCR (T cell receptor), binding to MHC (major histocompatibility complex) class II molecules. CD4 binds to the tyrosine kinase Lck (lymphocyte-specific protein tyrosine kinase), which phosphorylates the ITAM (immunoreceptor tyrosine activation motifs) domain of the CD3, activating CD3-related signaling. CD4 is a typical T cell marker of T helper cells. It has been linked to cancer, autoimmune diseases such as vitiligo, and type I diabetes. In addition, HIV-1 uses CD4 as a receptor to trigger viral envelope protein conformational changes that allow cell infection. Ibalizumab, an anti-CD4 antibody, is currently used in the treatment of HIV, being considered a first-in-class medication. Further studies into CD4 and potential strategies around it may benefit patients and

CD4 related diseases.

Species: Human

Construct: CD4 (26-396-Fc(lgG1)-Avi)

Concentration:1.15 mg/mlExpression System:HEK293Purity:≥90%

Format: Aqueous buffer solution.

Formulated In: 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol

MW: 70 kDa + glycans

Glycosylation: This protein runs at a higher MW by SDS-PAGE due to glycosylation.

Genbank Accession: NM_000616.5

Stability: At least 6 months at -80°C.

Storage: -80°C

Instructions for Use: Thaw on ice and gently mix prior to use. DO NOT VORTEX. Perform a quick spin before

opening. Aliquot into small volumes and flash freeze for long term storage. Avoid

multiple freeze/thaw cycles.

Applications: Useful for SDS-PAGE.



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Quality Control Data

4-20% SDS-PAGE Coomassie Staining



