

## HUMAN CD4 PROTEIN, HFC TAG

**Cat.#:** 11636

**Product Name:** Human CD4 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CD4;D4mut;EU3

**Target:** CD4

**UNIPROT ID:** P01730

**Description:** Recombinant human CD4 protein with C-terminal human Fc tag

**Background:** This gene encodes the CD4 membrane glycoprotein of T lymphocytes. The CD4 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class II MHC molecules. The CD4 antigen is also a primary receptor for entry of the human immunodeficiency virus through interactions with the HIV Env gp120 subunit. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, granulocytes, as well as in various 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.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 65.67 kDa after removal of the signal peptide.

**Molecular Characterization:** CD4(Lys26-Trp390) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



# Product Description

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