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Product datasheet for TP727720

CD4 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human T-cell surface glycoprotein CD4/sCD4 (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Lys26-Trp390
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, 1mM EDTA, pH 7.4.
Note:	Recombinant Human T-cell Surface Glycoprotein CD4 is produced by our Mammalian expression system and the target gene encoding Lys26-Trp390 is expressed with a Fc tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	920
UniProt ID:	P01730
Synonyms:	T-cell surface glycoprotein CD4;T-cell surface antigen T4/Leu-3;CD4;Scd4
Summary:	CD4 is an approximately 55Â kDa typeÂ I transmembrane glycoprotein that is expressed predominantly on thymocytes and a subset of mature TÂ lymphocytes. It is a standard phenotype marker for the identification of TÂ cell populations. Mature human CD4 consists of a 371Â amino acid extracellular region containing four immunoglobulin-like domains, a 22Â aa transmembrane segment, and a 40Â aa cytoplasmic domain. CD4 is expressed along with CD8 on double positive TÂ cells during their development in the thymus. CD4 binds directly to MHC classÂ II molecules on antigen presenting cells (10). This interaction contributes to the formation of the immunological synapse which is focused around the TCR-MHC class II-antigenic peptide interaction. CD4 also functions as a chemotactic receptor for IL-16 and, in human, as a co-receptor for the gp120 surface glycoprotein of HIV-1.
Protein Families:	Adult stem cells, Druggable Genome, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane

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Protein Pathways: Antigen processing and presentation, Cell adhesion molecules (CAMs), Hematopoietic cell lineage, Primary immunodeficiency, T cell receptor signaling pathway