

Recombinant Human sCD4

Catalog No: CS77

Description	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.
Source	Human Cells
Alternative name	T-cell surface glycoprotein CD4;T-cell surface antigen T4/Leu-3;CD4;Scd4
Accession No.	P50579
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS,1mM EDTA,PH7.4.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.

Amino Acid Sequence

KKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGSFLT KGPSKLNDRADSRRLWDQGNFP
 LIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANS DTHLLQGQSLTLTLESPPGSSPSVQCRSPRGKNIQ
 GGKTL SVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLA FQKASSIVYKKEGEQVEFSFPLAFTVEKLTG
 SGELWWQAERASSSKSWITFDLKNKEVSVKRV TQDPKLQMGKKLPLHLTLPQALPQYAGSGNLT LALE
 AKTGK LHQEVNLVVMRATQLQKNLTCEVWGPTSPKLM LSLKLENKEAKVSKREKAVWVLNPEAGMWQ
 CLLSDSGQVLLESNIKVLPTWDIEGRMDEPKSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRT P
 EVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKV S
 NKALPAIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKT
 TPPVLDSDGSFFLYSK LTVDKSRWQQGNV FSCSVMEALHNHYTQKSLSLSPGK

Background

CD4 is an approximately 55 kDa type I transmembrane glycoprotein that is expressed predominantly on thymocytes and a subset of mature T lymphocytes. It is a standard phenotype marker for the identification of T cell populations. Mature human CD4 consists of a 371 amino acid extracellular region containing four immunoglobulin-like domains, a 22 aa transmembrane segment, and a 40 aa cytoplasmic domain. CD4 is expressed along with CD8 on double positive T cells during their development in the thymus. CD4 binds directly to MHC class 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.

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