

Recombinant Human CD4 therapeutic protein(Alvircept sudotox)

Cat. No. CD4-P022H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | The therapeutic protein is a form of recombinant CD4 derived from <i>Pneumonas aeruginosa</i> exotoxin A. |
| Species | Human |
| Source | <i>Pneumonas aeruginosa</i> exotoxin A |
| Description | This gene encodes a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigens and is also a receptor for the human immunodeficiency virus. This gene is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific 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. |
| Endotoxin | < 0.1 EU per µg of the protein |
| Purity | >97% |

GENE INFORMATION

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| Gene Name | CD4 CD4 molecule [Homo sapiens] |
| Official Symbol | CD4 |
| 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; |
| Gene ID | 920 |
| mRNA Refseq | NM_000616 |
| Protein Refseq | NP_000607 |
| MIM | 186940 |
| UniProt ID | P01730 |
| Chromosome Location | 12p13.31 |
| Pathway | Adaptive Immune System, organism-specific biosystem; Alpha-defensins, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Arf1 pathway, organism-specific biosystem; Binding and entry of HIV virion, organism-specific biosystem; C-MYB transcription factor network, organism-specific biosystem; |
| Function | MHC class II protein binding; coreceptor activity; enzyme binding; extracellular matrix structural constituent; glycoprotein binding; protein binding; protein homodimerization activity; protein kinase binding; receptor activity; transmembrane signaling receptor activity; zinc ion binding; |

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