
Product Data Sheet

Product Name: CD4 (26-396) Human, Sf9

Cat. No.: GP20871

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CD4 Molecule; T-Cell Surface Antigen T4/Leu-3; CD4 Antigen (P55); T-Cell Surface Glycoprotein CD4; CD4 Receptor; CD4 Antigen; CD4 mut.		
Amino Acid Sequence	KKVVLGKKGDTVELTCTASQ KKSIFHWKN SNQIKILGNQ GSFLTGKPSK LNDRADSRRS LWDQGNFPLI IKNLKIEDSDTYICEVEDQK EEVQLLVFGL TANS DTHLLQ GQSLTLTLES PPGSSPSVQC RSPRGKNIQG GKTLSVSQLELQDSGTWTCT VLQNQKKVEF KIDIVVLA FQ KASSIVYKKE GEQVEFSFPL AFTVEKLTGS GELWWQAERASSSKSWITFD LKNKEVSVKR VTQDPKLQMG KKLPLHLTLP QALPQYAGSG NLTALAEAKT GKLHQEVN LVVMRATQLQKN LTCEVWGPTS PKLMLSLKLE NKEAKVSKRE KAVWVLNPEA GMWQCLLSDS GQVLLESNIK VLPTWSTPVQPHHHHHH.		
Formulation	CD4 a protein solution (0.25mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

CD4 is a cell-surface glycoprotein found on the mature helper T cells and immature thymocytes, as well as on monocytes and macrophages. (Some cytotoxic T cells have CD4 protein as well.) Normally, about 65% of T cells in the blood are CD4+ (have CD4 protein protruding from their membrane). A mature T cell with either have CD4 or CD8, but not both. During one stage of development T cells develop CD4 and CD8 receptors, but they eventually are differentiated in the thymus and become more specialized.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

CD4 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 377 amino acids (26-396a.a.) and having a molecular mass of 42.1kDa (Molecular size on SDS-PAGE will appear at approximately 40-57kDa). CD4 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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