



## Product Datasheet

<b>Product Name</b>	Soluble CD4 Human Recombinant
<b>Cata No</b>	CB500206
<b>Source</b>	<i>Baculovirus</i>
<b>Synonyms</b>	gp55, HLA-2, L3 / T4, Ly-4, T cell antigen T4/LEU3, T4, sCD4, CD4mut

### Description

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.

sCD4 Human Recombinant produced in Baculovirus is a single, glycosylated polypeptide chain containing 365 amino acids and having a non glycosylated molecular mass of 45 kDa. As a result of glycosilation the sCD4 migrates as a 46 kDa protein on standard SDS-PAGE. Detected By Western Immunoblots anti CD4 monoclonal antibody.

The sCD4 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile Filtered colorless solution.

### Biological Activity

Immune reactive in ELISA using monoclonal anti CD4 in gp120 capture ELISA assays.

### Purity

Greater than 90.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Formulation

The solution contains 10mM sodium phosphate buffer pH-7.0, 300mM NaCl and 0.01% tween-80.

### Stability

sCD4 Human Recombinant although stable at 14°C for 1 week, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### Sequence

The sequence of the amino acids was determined and was found to be:

KKVVL GKKGDTVELT CTASQKKSQ  
FHWKNSNQIK ILGNQGSFLT KGPSKLNDR  
DSRRSLWDQG NFPLIKNLK IEDSDTYICE  
VEDQKEEVQL LVFGLTANS D THLLQGQSLT  
LTLESPPGSS PSVQCRSPRG KNIQGGKTL  
VSQLELQDSG TWTCTVLQNG KKVEFKIDIV  
VLAQKASSI VYKKEGEQVE FSFPLAFTVE  
KLTGSGELWWQAERASSSKS WITFDLKNKE  
VSVKRVTDQP KLQMGKKLPL HLTLPQALPQ  
YAGSGNLTALAEKTGKLHQ EVNLVVMRAT  
QLQKNLTCEV WGPTSPKMLL SLKLENKEAK  
VSKREKAVWV LNPEAGMWQC LLSDSGQVLL  
ESNIKVLPTW

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# California Bioscience

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83103 Avenue 48, Ste.1B #204  
Coachella, CA 92236 USA  
Phone : +1.6268339877  
Email : [info@cali-bio.com](mailto:info@cali-bio.com)

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