



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Human CD4 Recombinant Protein

CATALOG NUMBER: IV-CD4-005P, 50 µg

### Introduction

CD4 (cluster of differentiation 4) is a glycoprotein found on the surface of immune cells such as T helper cells, monocytes, macrophages, and dendritic cells. CD4+ T helper cells are white blood cells that are an essential part of the human immune system. 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.

HIV-1 uses CD4 to gain entry into host T-cells and achieves this through its viral envelope protein known as gp120. The binding to CD4 creates a shift in the conformation of gp120 allowing HIV-1 to bind to a co-receptor expressed on the host cell. These co-receptors are chemokine receptors CCR5 or CXCR4. Following a structural change in another viral protein (gp41), HIV inserts a fusion peptide into the host cell that allows the outer membrane of the virus to fuse with the cell membrane.

### Applications

Western blot standard, antibody ELISA, HIV-1 entry inhibition, etc.

### Description

Human CD4 glycoprotein expressed and purified from 293 cell culture

### Viral Protein

C-terminal 6xHis tagged human CD4 glycoprotein (amino acid 26-398) (GenBank No. P01730)

### Storage

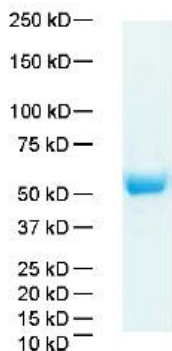
Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous. No MSDS required.

### Concentration

1 mg/ml in PBS with less than 0.1% BSA and 25% glycerol

### Specificity

≥ 95% purity (SDS PAGE)



**SDS-PAGE:** purified human CD4 ectodomain protein

### Human CD4 ( aa 26-398) Seq:

KKVVLGKKGDTVELTCTASQKKS IQFHWKNSNQIK I LGNQGSF LTKGPSKLNDRADSRRLWDQGNFPLI IKNLKI EDSDTYICEVEDQKEEVQLLVFG  
 LTANS DTHLLQGQSLTTLTLESPPGSSPSVQCRSPRGKNIQGGKTL SVSQLELQDSGTWCTV LQNQKVFVKIDIVVLA FQKASSIVYKKEGEQVEFSF  
 PLAF TVEKLTGSGELWWQAERASSKSWITFDLKNKEVSVKRV TQDPKLQMGKKLPLHL TLPQALPQYAGSGNLT LALEAKTGK LHQEVN LVVMRATQL  
 QKNLTCEVWGPTSPKLM LSLKLENKEAKVSKREKAVVWLNPEAGMWQCLLSDSGQV LLESNIKVLPTWSTPVQPM AHHHHHH