



# 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

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## CD4 (rhesus macaque) Recombinant Protein

CATALOG NUMBER: IV-rhCD4-005P, 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/SIV-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/SIV-1 entry inhibition, etc.

### Description

Viral protein expressed and purified from 293 cell culture

### Viral Protein

C-terminal 6xHis tagged rhesus macaque CD4 protein (amino acid 1-398) (GenBank No. NP\_001036127); the predicted mature protein starts at position 26.

### 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

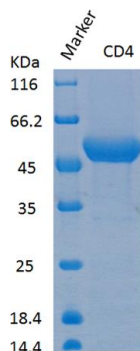
1 µg/µl in PBS with 0.1% sodium azide

### Endotoxin Level

<0.01 EU per 1 µg of the protein by LAL test

### Specificity

≥ 95% purity (SDS PAGE)



**SDS-PAGE:** purified rhesus macaque CD4 protein

### Recombinant CD4 (rhesus macaque) (aa 1-398) Protein Seq:

MNRGIPFRHLLLVQLALLPAVTQGGKVVVLGKKGDTVELTCTASQKKNQTFHWKNSNQIKILGIQGLFLTGKPSKLSDRADSRKSLWDQGCFSMIKKNL  
KIEDSDTYICEVENKKEEVELLVFGLTANS DTHLLEGQSLTTLTLESPPGSSPSVKCRSPGGKNIQGGRTISVPQLERQDSGTWTCTVSQDQKTVEFKID  
IVVLAFAQASSTVYKKEGEQVEFSFPLAFTLEKLTGSGELWWQAERASSKSWITFDLKNKEVSVKRVTQDPKLMGKKLPLHLTLPQALPQYAGSGNL  
TLALEAKTGKLGHEVNLVVMRATQFQENLTCEVWGPTSPKLTLSLKENKGATVSKQAKAVVWLNPEAGMWQCLLSDSGQVLLLESNIKVVPTWPTPVQP  
MAHHHHHH