

Datasheet for ABIN7504970

## CXCR4 Protein (AA 1-38) (His tag)



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### Overview

Quantity:	100 µg
Target:	CXCR4
Protein Characteristics:	AA 1-38
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CXCR4 protein is labelled with His tag.

### Product Details

Sequence:	Met1-Lys38
Characteristics:	A DNA sequence encoding the human CXCR4 (C28A) (1M-38K) was expressed with a GST tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

### Target Details

Target:	CXCR4
Alternative Name:	CXCR4 ( <a href="#">CXCR4 Products</a> )
Background:	<p>Abbreviation: CXCR4</p> <p>Target Synonym: C-X-C chemokine receptor type 4,CD184,FB22,Fusin,HM89,HSY3RR,LAP3,LCR1,NPYR,SDF 1 receptor,WHIM</p> <p>Background: Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by</p>

## Target Details

increasing intracellular calcium ions levels and enhancing MAPK1/MAPK3 activation. Acts as a receptor for extracellular ubiquitin, leading to enhance intracellular calcium ions and reduce cellular cAMP levels. Involved in haematopoiesis and in cardiac ventricular septum formation. Plays also an essential role in vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or remodeling processes in endothelial cells. Could be involved in cerebellar development. In the CNS, could mediate hippocampal-neuron survival. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 X4 isolates and as a primary receptor for some HIV-2 isolates. Promotes Env-mediated fusion of the virus.

Molecular Weight:      Calculated MW: 31.2 kDa  
Observed MW: 32-35 kDa

UniProt:                      [P61073](#)

Pathways:                    [Regulation of Cell Size, CXCR4-mediated Signaling Events](#)

## Application Details

Restrictions:                For Research Use only

## Handling

Format:                      Lyophilized

Buffer:                      Lyophilized from sterile PBS, pH 7.4.  
Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.

Storage:                     4 °C,-20 °C,-80 °C

Storage Comment:        Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.  
Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Expiry Date:                12 months