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CXCR4 Protein (AA 1-359) (rho-1D4 tag)



Image



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Overview

Quantity:	1 mg	
Target:	CXCR4	
Protein Characteristics:	AA 1-359	
Origin:	Mouse	
Source:	Insect Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	/ Conjugate: This CXCR4 protein is labelled with rho-1D4 tag.	
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)	

Product Details

Sequenc	ce:
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MEPISVSIYT SDNYSEEVGS GDYDSNKEPC FRDENVHFNR IFLPTIYFII FLTGIVGNGL
VILVMGYQKK LRSMTDKYRL HLSVADLLFV ITLPFWAVDA MADWYFGKFL CKAVHIIYTV
NLYSSVLILA FISLDRYLAI VHATNSQRPR KLLAEKAVYV GVWIPALLLT IPDFIFADVS
QGDISQGDDR YICDRLYPDS LWMVVFQFQH IMVGLILPGI VILSCYCIII SKLSHSKGHQ
KRKALKTTVI LILAFFACWL PYYVGISIDS FILLGVIKQG CDFESIVHKW ISITEALAFF HCCLNPILYA
FLGAKFKSSA QHALNSMSRG SSLKILSKGK RGGHSSVSTE SESSSFHSS

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Cxcr4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

- 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
- 2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
- 3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.	
Sterility:	0.22 μm filtered	
Endotoxin Level: Protein is endotoxin-free.		
Grade:	Crystallography grade	

Target Details

Target:	CXCR4	

Target Details

Alternative Name:	Cxcr4 (CXCR4 Products)	
Background:	Binds bacterial lipopolysaccharide (LPS) et mediates LPS-induced inflammatory response, including TNF secretion by monocytes (By similarity). Receptor for the C-X-C chemokine CXCL12/SDF-1 that transduces a signal by increasing intracellular calcium ion levels and enhancing MAPK1/MAPK3 activation. Acts as a receptor for extracellular ubiquitin, leading to	
	enhanced intracellular calcium ions and reduced cellular cAMP levels. Involved in	
	hematopoiesis and in cardiac ventricular septum formation. Also plays an essential role in	
	vascularization of the gastrointestinal tract, probably by regulating vascular branching and/or	
	remodeling processes in endothelial cells. Involved in cerebellar development. In the CNS, coul	
	mediate hippocampal-neuron survival. (ECO:0000250, ECO:0000269 PubMed:9634237,	
	ECO:0000269 PubMed:9634238, ECO:0000269 PubMed:9689100}.	
Molecular Weight:	41.6 kDa Including tag.	
UniProt:	P70658	
Pathways:	Regulation of Cell Size, CXCR4-mediated Signaling Events	
Application Details		
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurante though.	
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the	
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher	
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible	
	options with you in detail to assure that you receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	

Expiry Date:

Unlimited (if stored properly)

Images

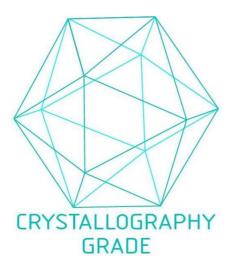


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process