

Datasheet for ABIN3113835

CCR5 Protein (AA 1-352) (rho-1D4 tag)**4** Images[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	CCR5
Protein Characteristics:	AA 1-352
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCR5 protein is labelled with rho-1D4 tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	MDYQVSSPIY DINYYTSEPC QKINVKQIAA RLLPPLYSLV FIFGFVGNML VILILINCKR LKSMTDIYLL NLAISDLFFL LTPFWAHYA AAQWDFGNTM CQLLTGLYFI GFFSGIFFII LLTIDRYLAV VHAVFALKAR TVTFGVVTSV ITWVAVFAS LPGIIFTRSQ KEGLHYTCSS HFPYSQYQFW KNFQTLKIVI LGLVLPLLVM VICYSGILKT LLRCRNEKKR HRAVRLIFTI MIVYFLFWAP YNIVLLLNTF QEFFGLNNCS SSNRDQAMQ VTETLGMTHC CINPIIYAFV GEKFRNYLLV FFQKHIKRF CKCCSIFQQE APERASSVYT RSTGEQEISV GL GSSGTETSQVAPA
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C-terminal Rho1D4-tag

Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human CCR5 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).
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This protein is a made to order protein and will be made for the first time for your order. Our

Product Details

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 receipt 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:	The protein is purified from the cleared cell lysate using Rho1D4 capture materials. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions are subjected to a second purification step through size exclusion chromatography. 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:	CCR5
Alternative Name:	CCR5 (CCR5 Products)
Background:	Receptor for a number of inflammatory CC-chemokines including MIP-1-alpha, MIP-1-beta and RANTES and subsequently transduces a signal by increasing the intracellular calcium ion level. May play a role in the control of granulocytic lineage proliferation or differentiation. Acts as a coreceptor (CD4 being the primary receptor) for HIV-1 R5 isolates. {ECO:0000269 PubMed:11323418, ECO:0000269 PubMed:8639485,

Target Details

	ECO:0000269 PubMed:8649511, ECO:0000269 PubMed:8649512, ECO:0000269 PubMed:8663314, ECO:0000269 PubMed:8699119}., (Microbial infection) Acts as a receptor for human immunodeficiency virus-1/HIV-1. {ECO:0000269 PubMed:21763489, ECO:0000269 PubMed:9632396}.
Molecular Weight:	41.7 kDa Including tag.
UniProt:	P51681
Pathways:	Cellular Response to Molecule of Bacterial Origin , cAMP Metabolic Process , Regulation of Cell Size

Application Details

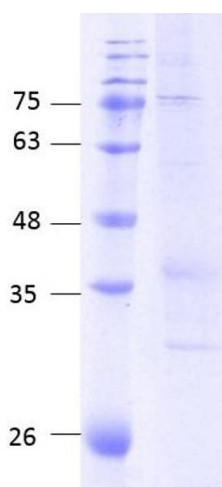
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	in solution (20 mM Hepes, pH 7.4, 100 mM NaCl, DIBMA, note: DIBMA is a synthetic co-polymer that replaces detergent. Do not add detergent to the buffer)
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

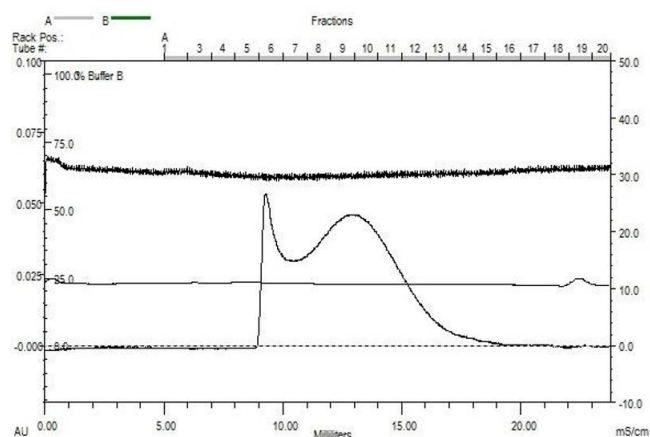


Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



SDS-PAGE

Image 2. C-C Chemokine Receptor Type 5 (CCR5) (AA 1-352), fraction 10 - 11



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. C-C Chemokine Receptor Type 5 (CCR5) (AA 1-352), gel filtration Superose 6 fraction 10 - 11

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3113835.