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## Datasheet for ABIN3091090 CCL5 Protein (AA 26-91) (His tag)

Image



#### Overview

Quantity:	1 mg
Target:	CCL5
Protein Characteristics:	AA 26-91
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCL5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	YSSDTTPCCF AYIARPLPRA HIKEYFYTSG KCSNPAVVFV TRKNRQVCAN PEKKWVREYI
	NSLEMS
	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.

- Human CCL5 Protein (raised in E. Coli) 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

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Product Details	
	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:	Two step purification of proteins expressed in bacterial culture:
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade

### Target Details

Target:	CCL5
Alternative Name:	CCL5 (CCL5 Products)
Background:	Chemoattractant for blood monocytes, memory T-helper cells and eosinophils. Causes the
	release of histamine from basophils and activates eosinophils. May activate several chemokine
	receptors including CCR1, CCR3, CCR4 and CCR5. One of the major HIV-suppressive factors
	produced by CD8+ T-cells. Recombinant RANTES protein induces a dose-dependent inhibition
	of different strains of HIV-1, HIV-2, and simian immunodeficiency virus (SIV). The processed

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	form RANTES(3-68) acts as a natural chemotaxis inhibitor and is a more potent inhibitor of HIV-
	1-infection. The second processed form RANTES(4-68) exhibits reduced chemotactic and HIV-
	suppressive activity compared with RANTES(1-68) and RANTES(3-68) and is generated by an
	unidentified enzyme associated with monocytes and neutrophils (PubMed:16791620,
	PubMed:1380064, PubMed:8525373, PubMed:9516414, PubMed:15923218). May also be an
	agonist of the G protein-coupled receptor GPR75, stimulating inositol trisphosphate production
	and calcium mobilization through its activation. Together with GPR75, may play a role in neuron
	survival through activation of a downstream signaling pathway involving the PI3, Akt and MAP
	kinases. By activating GPR75 may also play a role in insulin secretion by islet cells
	(PubMed:23979485). {ECO:0000269 PubMed:1380064, ECO:0000269 PubMed:15923218,
	ECO:0000269 PubMed:16791620, ECO:0000269 PubMed:17001303,
	ECO:0000269 PubMed:23979485, ECO:0000269 PubMed:8525373,
	ECO:0000269 PubMed:9516414}.
Molecular Weight:	8.6 kDa Including tag.
UniProt:	P13501
Pathways:	Cellular Response to Molecule of Bacterial Origin, Regulation of G-Protein Coupled Receptor
	Protein Signaling, Smooth Muscle Cell Migration

## 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 gurantee though.
Comment:	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.

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### Handling

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

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