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C3 Protein (AA 749-954) (His tag)



Image



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Quantity:	1 mg
Target:	C3
Protein Characteristics:	AA 749-954
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This C3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	SNLDEDIIAE ENIVSRSEFP ESWLWNVEDL KEPPKNGIST KLMNIFLKDS ITTWEILAVS
	MSDKKGICVA DPFEVTVMQD FFIDLRLPYS VVRNEQVEIR AVLYNYRQNQ ELKVRVELLH
	NPAFCSLATT KRRHQQTVTI PPKSSLSVPY VIVPLKTGLQ EVEVKAAVYH HFISDGVRKS
	LKVVPEGIRM NKTVAVRTLD PERLGR
	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 C3 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 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:

- 1. 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.
- 2. 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.

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:	C3
Alternative Name:	C3 (C3 Products)
Background:	C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After
	activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or

immune aggregates., Derived from proteolytic degradation of complement C3, C3a
anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts as a
chemoattractant for neutrophils (By similarity). It induces the contraction of smooth muscle,
increases vascular permeability and causes histamine release from mast cells and basophilic
leukocytes. {ECO:0000250}., C3-beta-c: Acts as a chemoattractant for neutrophils in chronic
inflammation. {ECO:0000250}., Acylation stimulating protein: adipogenic hormone that
stimulates triglyceride (TG) synthesis and glucose transport in adipocytes, regulating fat
storage and playing a role in postprandial TG clearance. Appears to stimulate TG synthesis via
activation of the PLC, MAPK and AKT signaling pathways. Ligand for C5AR2. Promotes the
phosphorylation, ARRB2-mediated internalization and recycling of C5AR2 (PubMed:8376604,
PubMed:2909530, PubMed:9059512, PubMed:10432298, PubMed:15833747,
PubMed:16333141, PubMed:19615750). {ECO:0000269 PubMed:10432298,
ECO:0000269 PubMed:15833747, ECO:0000269 PubMed:16333141,
ECO:0000269 PubMed:19615750, ECO:0000269 PubMed:2909530,
ECO:0000269 PubMed:8376604, ECO:0000269 PubMed:9059512}.

Molecular Weight:	24.5 kDa Including tag.
UniProt:	P01024
Pathways:	Complement System, Regulation of Leukocyte Mediated Immunity, Positive Regulation of
	Immune Effector Process, Regulation of G-Protein Coupled Receptor Protein Signaling

Application Details

Buffer:

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

100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

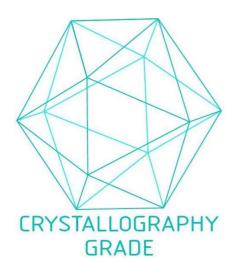


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process