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## Datasheet for ABIN3091765 C3 Protein (AA 569-667) (His tag)



Overview	
Quantity:	1 mg
Target:	C3
Protein Characteristics:	AA 569-667
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:	QSEDRQPVPG QQMTLKIEGD HGARVVLVAV DKGVFVLNKK NKLTQSKIWD VVEKADIGCT
	PGSGKDYAGV FSDAGLTFTS SSGQQTAQRA ELQCPQPAA
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human C3 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> <li>State-of-the-art algorithm used for plasmid design (Gene synthesis).</li> </ul>
	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>
	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

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	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:	11.5 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

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)