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Datasheet for ABIN3091805 C5 Protein (AA 678-1676) (His tag)

I Image



Overview

Quantity:	1 mg
Target:	C5
Protein Characteristics:	AA 678-1676
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	TLQKKIEEIA AKYKHSVVKK CCYDGACVNN DETCEQRAAR ISLGPRCIKA FTECCVVASQ
	LRANISHKDM QLGRLHMKTL LPVSKPEIRS YFPESWLWEV HLVPRRKQLQ FALPDSLTTW
	EIQGVGISNT GICVADTVKA KVFKDVFLEM NIPYSVVRGE QIQLKGTVYN YRTSGMQFCV
	KMSAVEGICT SESPVIDHQG TKSSKCVRQK VEGSSSHLVT FTVLPLEIGL HNINFSLETW
	FGKEILVKTL RVVPEGVKRE SYSGVTLDPR GIYGTISRRK EFPYRIPLDL VPKTEIKRIL SVKGLLVGEI
	LSAVLSQEGI NILTHLPKGS AEAELMSVVP VFYVFHYLET GNHWNIFHSD PLIEKQKLKK
	KLKEGMLSIM SYRNADYSYS VWKGGSASTW LTAFALRVLG QVNKYVEQNQ NSICNSLLWL
	VENYQLDNGS FKENSQYQPI KLQGTLPVEA RENSLYLTAF TVIGIRKAFD ICPLVKIDTA
	LIKADNFLLE NTLPAQSTFT LAISAYALSL GDKTHPQFRS IVSALKREAL VKGNPPIYRF
	WKDNLQHKDS SVPNTGTARM VETTAYALLT SLNLKDINYV NPVIKWLSEE QRYGGGFYST
	QDTINAIEGL TEYSLLVKQL RLSMDIDVSY KHKGALHNYK MTDKNFLGRP VEVLLNDDLI
	VSTGFGSGLA TVHVTTVVHK TSTSEEVCSF YLKIDTQDIE ASHYRGYGNS DYKRIVACAS

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	YKPSREESSS GSSHAVMDIS LPTGISANEE DLKALVEGVD QLFTDYQIKD GHVILQLNSI
	PSSDFLCVRF RIFELFEVGF LSPATFTVYE YHRPDKQCTM FYSTSNIKIQ KVCEGAACKC
	VEADCGQMQE ELDLTISAET RKQTACKPEI AYAYKVSITS ITVENVFVKY KATLLDIYKT
	GEAVAEKDSE ITFIKKVTCT NAELVKGRQY LIMGKEALQI KYNFSFRYIY PLDSLTWIEY
	WPRDTTCSSC QAFLANLDEF AEDIFLNGC
	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 C5 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:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 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.
	 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.

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Product Details	
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:	C5
Alternative Name:	C5 (C5 Products)
Background:	Activation of C5 by a C5 convertase initiates the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex. C5b has a transient binding site for C6. The C5b-C6 complex is the foundation upon which the lytic complex is assembled., Derived from proteolytic degradation of complement C5, C5 anaphylatoxin is a mediator of local inflammatory process. Binding to the receptor C5AR1 induces a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes (PubMed:8182049). C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation. {EC0:0000269 PubMed:8182049}.
Molecular Weight:	113.5 kDa Including tag.
UniProt:	P01031
Pathways:	Complement System, Carbohydrate Homeostasis
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

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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