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Datasheet for ABIN3078027 C4B Protein (AA 957-1336) (His tag)

Image



Overview

Quantity:	1 mg
Target:	C4B (C4b)
Protein Characteristics:	AA 957-1336
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This C4B protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	TLEIPGNSDP NMIPDGDFNS YVRVTASDPL DTLGSEGALS PGGVASLLRL PRGCGEQTMI
	YLAPTLAASR YLDKTEQWST LPPETKDHAV DLIQKGYMRI QQFRKADGSY AAWLSRGSST
	WLTAFVLKVL SLAQEQVGGS PEKLQETSNW LLSQQQADGS FQDLSPVIHR SMQGGLVGND
	ETVALTAFVT IALHHGLAVF QDEGAEPLKQ RVEASISKAS SFLGEKASAG LLGAHAAAIT
	AYALTLTKAP ADLRGVAHNN LMAMAQETGD NLYWGSVTGS QSNAVSPTPA PRNPSDPMPQ
	APALWIETTA YALLHLLLHE GKAEMADQAA AWLTRQGSFQ GGFRSTQDTV IALDALSAYW
	IASHTTEERG LNVTLSSTGR
	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 C4B, C4B_2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.

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	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
Torgot Dotoilo	
Target Details	
Target:	C4B (C4b)
Alternative Name:	C4B, C4B_2 (C4b Products)

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Target Details

Background:	Non-enzymatic component of the C3 and C5 convertases and thus essential for the
	propagation of the classical complement pathway. Covalently binds to immunoglobulins and
	immune complexes and enhances the solubilization of immune aggregates and the clearance
	of IC through CR1 on erythrocytes. C4A isotype is responsible for effective binding to form
	amide bonds with immune aggregates or protein antigens, while C4B isotype catalyzes the
	transacylation of the thioester carbonyl group to form ester bonds with carbohydrate antigens.,
	Derived from proteolytic degradation of complement C4, C4a anaphylatoxin is a mediator of
	local inflammatory process. It induces the contraction of smooth muscle, increases vascular
	permeability and causes histamine release from mast cells and basophilic leukocytes.
Molecular Weight:	41.5 kDa Including tag.
UniProt:	P0C0L5
Pathways:	Complement System
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.
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.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

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

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