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C4A Protein (AA 680-1446) (His tag)





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Overview

Quantity:	1 mg
Target:	C4A (C4a)
Protein Characteristics:	AA 680-1446
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This C4A protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

NVNFQKAINE KLGQYASPTA KRCCQDGVTR LPMMRSCEQR AARVQQPDCR EPFLSCCQFA ESLRKKSRDK GQAGLQRALE ILQEEDLIDE DDIPVRSFFP ENWLWRVETV DRFQILTLWL PDSLTTWEIH GLSLSKTKGL CVATPVQLRV FREFHLHLRL PMSVRRFEQL ELRPVLYNYL DKNLTVSVHV SPVEGLCLAG GGGLAQQVLV PAGSARPVAF SVVPTAAAAV SLKVVARGSF EFPVGDAVSK VLQIEKEGAI HREELVYELN PLDHRGRTLE IPGNSDPNMI PDGDFNSYVR VTASDPLDTL GSEGALSPGG VASLLRLPRG CGEQTMIYLA PTLAASRYLD KTEQWSTLPP ETKDHAVDLI QKGYMRIQQF RKADGSYAAW LSRDSSTWLT AFVLKVLSLA QEQVGGSPEK LQETSNWLLS QQQADGSFQD PCPVLDRSMQ GGLVGNDETV ALTAFVTIAL HHGLAVFQDE GAEPLKQRVE ASISKANSFL GEKASAGLLG AHAAAITAYA LTLTKAPVDL LGVAHNNLMA MAQETGDNLY WGSVTGSQSN AVSPTPAPRN PSDPMPQAPA LWIETTAYAL LHLLLHEGKA EMADQASAWL TRQGSFQGGF RSTQDTVIAL DALSAYWIAS HTTEERGLNV TLSSTGRNGF KSHALQLNNR QIRGLEEELQ FSLGSKINVK VGGNSKGTLK VLRTYNVLDM KNTTCQDLQI

EVTVKGHVEY TMEANEDYED YEYDELPAKD DPDAPLQPVT PLQLFEG

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 C4A 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:

- 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.
- 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:

Protein is endotoxin free.

Product Details	
Grade:	Crystallography grade
Target Details	
Target:	C4A (C4a)
Alternative Name:	C4A (C4a Products)
Background:	Non-enzymatic component of 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:	85.2 kDa Including tag.
UniProt:	P0C0L4
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 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

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

Images

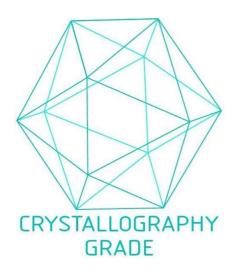


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process