

Datasheet for ABIN3088980

Annexin a1 Protein (AA 2-346) (His tag)



[Go to Product page](#)

1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | Annexin a1 (ANXA1) |
| Protein Characteristics: | AA 2-346 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Annexin a1 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys) |

Product Details

| | |
|------------------|--|
| Sequence: | <p>AMVSEFLKQA WFIENEEQ EY VQTVKSSKGG PGSAVSPYPT FNPSSDVAAL HKAIMVKGV D</p> <p>EATIIDILTK RNNAQRQ QIK AAYLQETGKP LDETLKKALT GHLEEVVLAL LKTPAQFDAD</p> <p>ELRAAMKGLG TDEDTLIEIL ASRTNKEIRD INRVYREELK RDLAKDITSD TSGDFRNALL</p> <p>SLAKGDRSED FGVNEDLADS DARALYEAGE RRGKTDVNVF NTILTTRSYP QLRRVFQKYT</p> <p>KYSKHDMNKV LDLELKGDI E KCLTAIVKCA TSKPAFFAEK LHQAMKGVGT RHKALIRIMV</p> <p>SRSEIDMNDI KAFYQKMYGI SLCQAILDET KGDYEKILVA LCGGN</p> <p>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</p> |
| Characteristics: | <ul style="list-style-type: none"> Made in Germany - from design to production - by highly experienced protein experts. Human ANXA1 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). |

Product Details

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 receipt 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: <ol style="list-style-type: none">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: | Protein is endotoxin free. |
| Grade: | Crystallography grade |

Target Details

| | |
|-------------------|--|
| Target: | Annexin a1 (ANXA1) |
| Alternative Name: | ANXA1 (ANXA1 Products) |
| Background: | Plays important roles in the innate immune response as effector of glucocorticoid-mediated |

Target Details

responses and regulator of the inflammatory process. Has anti-inflammatory activity (PubMed:8425544). Plays a role in glucocorticoid-mediated down-regulation of the early phase of the inflammatory response (By similarity). Promotes resolution of inflammation and wound healing (PubMed:25664854). Functions at least in part by activating the formyl peptide receptors and downstream signaling cascades (PubMed:15187149, PubMed:25664854). Promotes chemotaxis of granulocytes and monocytes via activation of the formyl peptide receptors (PubMed:15187149). Contributes to the adaptive immune response by enhancing signaling cascades that are triggered by T-cell activation, regulates differentiation and proliferation of activated T-cells (PubMed:17008549). Promotes the differentiation of T-cells into Th1 cells and negatively regulates differentiation into Th2 cells (PubMed:17008549). Has no effect on unstimulated T cells (PubMed:17008549). Promotes rearrangement of the actin cytoskeleton, cell polarization and cell migration (PubMed:15187149). Negatively regulates hormone exocytosis via activation of the formyl peptide receptors and reorganization of the actin cytoskeleton (PubMed:19625660). Has high affinity for Ca(2+) and can bind up to eight Ca(2+) ions (By similarity). Displays Ca(2+)-dependent binding to phospholipid membranes (PubMed:2532504, PubMed:8557678). Plays a role in the formation of phagocytic cups and phagosomes. Plays a role in phagocytosis by mediating the Ca(2+)-dependent interaction between phagosomes and the actin cytoskeleton (By similarity).

{ECO:0000250|UniProtKB:P10107, ECO:0000250|UniProtKB:P19619, ECO:0000269|PubMed:15187149, ECO:0000269|PubMed:17008549, ECO:0000269|PubMed:19625660, ECO:0000269|PubMed:2532504, ECO:0000269|PubMed:25664854, ECO:0000269|PubMed:2936963, ECO:0000269|PubMed:8425544, ECO:0000269|PubMed:8557678}.

| | |
|-------------------|-------------------------|
| Molecular Weight: | 39.5 kDa Including tag. |
|-------------------|-------------------------|

| | |
|----------|------------------------|
| UniProt: | P04083 |
|----------|------------------------|

| | |
|-----------|-----------------------------------|
| Pathways: | Hormone Transport |
|-----------|-----------------------------------|

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 |
|----------|---|

Application Details

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) |

Images



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