antibodies

Datasheet for ABIN3095171 Prosaposin Protein (PSAP) (AA 17-524) (His tag)



Overview

Image

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | Prosaposin (PSAP) |
| Protein Characteristics: | AA 17-524 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Prosaposin protein is labelled with His tag. |
| Application: | Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys) |

Product Details

| Sequence: | GPVLGLKECT RGSAVWCQNV KTASDCGAVK HCLQTVWNKP TVKSLPCDIC KDVVTAAGDM |
|-----------|--|
| | LKDNATEEEI LVYLEKTCDW LPKPNMSASC KEIVDSYLPV ILDIIKGEMS RPGEVCSALN |
| | LCESLQKHLA ELNHQKQLES NKIPELDMTE VVAPFMANIP LLLYPQDGPR SKPQPKDNGD |
| | VCQDCIQMVT DIQTAVRTNS TFVQALVEHV KEECDRLGPG MADICKNYIS QYSEIAIQMM |
| | MHMQPKEICA LVGFCDEVKE MPMQTLVPAK VASKNVIPAL ELVEPIKKHE VPAKSDVYCE |
| | VCEFLVKEVT KLIDNNKTEK EILDAFDKMC SKLPKSLSEE CQEVVDTYGS SILSILLEEV |
| | SPELVCSMLH LCSGTRLPAL TVHVTQPKDG GFCEVCKKLV GYLDRNLEKN STKQEILAAL |
| | EKGCSFLPDP YQKQCDQFVA EYEPVLIEIL VEVMDPSFVC LKIGACPSAH KPLLGTEKCI |
| | WGPSYWCQNT ETAAQCNAVE HCKRHVWN |
| | Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a |
| | special request, please contact us. |

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| Product Details | |
|------------------|---|
| Characteristics: | Made in Germany - from design to production - by highly experienced protein experts. Human PSAP 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. |
| 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 |

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| Target: | Prosaposin (PSAP) |
|---------------------|---|
| Alternative Name: | PSAP (PSAP Products) |
| Background: | Saposin-A and saposin-C stimulate the hydrolysis of glucosylceramide by beta- |
| | glucosylceramidase (EC 3.2.1.45) and galactosylceramide by beta-galactosylceramidase (EC |
| | 3.2.1.46). Saposin-C apparently acts by combining with the enzyme and acidic lipid to form an |
| | activated complex, rather than by solubilizing the substrate., Saposin-B stimulates the |
| | hydrolysis of galacto-cerebroside sulfate by arylsulfatase A (EC 3.1.6.8), GM1 gangliosides by |
| | beta-galactosidase (EC 3.2.1.23) and globotriaosylceramide by alpha-galactosidase A (EC |
| | 3.2.1.22). Saposin-B forms a solubilizing complex with the substrates of the sphingolipid |
| | hydrolases., Saposin-D is a specific sphingomyelin phosphodiesterase activator (EC 3.1.4.12)., |
| | Prosaposin: Behaves as a myelinotrophic and neurotrophic factor, these effects are mediated |
| | by its G-protein-coupled receptors, GPR37 and GPR37L1, undergoing ligand-mediated |
| | internalization followed by ERK phosphorylation signaling. {ECO:0000250 UniProtKB:Q61207, |
| | ECO:0000269 PubMed:10383054}., Saposins are specific low-molecular mass non-enzymic |
| | proteins, they participate in the lysosomal degradation of sphingolipids, which takes place by |
| | the sequential action of specific hydrolases. |
| Molecular Weight: | 57.4 kDa Including tag. |
| UniProt: | P07602 |
| Pathways: | Positive Regulation of Endopeptidase Activity |
| 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 | |
| | Liquid |

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| Handling | | |
|------------------|--|--|
| 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

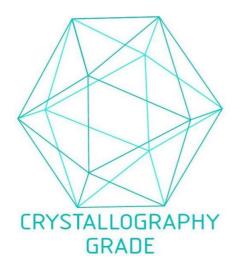


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process