Datasheet for ABIN3119167

# SNX6 Protein (AA 2-406) (His tag)

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## Overview

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| Quantity: | 2 mg |
| Target: | SNX6 |
| Protein Characteristics: | AA 2-406 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This SNX6 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

## Product Details

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| Sequence: | MEGLDDGPDF LSEEDRGLKA INVDLQSDAA LQVDISDALS ERDKVKFTVH TKSSLPNFKQ NEFSVVRQHE EFIWLHDSFV ENEDYAGYII PPAPPRPDFD ASREKLQKLG EGEGSMTKEE FTKMKQELEA EYLAIFKKTV AMHEVFLCRV AAHPILRRDL NFHVFLEYNQ DLSVRGKNKK EKLEDFFKNM VKSADGVIVS GVKDVDDFFE HERTFLLEYH NRVKDASAKS DRMTRSHKSA ADDYNRIGSS LYALGTQDST DICKFFLKVS ELFDKTRKIE ARVSADEDLK LSDLLKYYLR ESQAAKDLLY RRSRSLVDYE NANKALDKAR AKNKDVLQAE TSQQLCCQKF EKISESAKQE LIDFKTRRVA AFRKNLVELA ELELKHAKGN LQLLQNCLAV LNGDT<br>**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.<br>• Human SNX6 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. |

## Product Details

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| | • State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br>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.<br>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).<br>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.<br>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.<br>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:<br>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.<br>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

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| Target: | SNX6 |
| Alternative Name: | SNX6 (SNX6 Products) |

## Target Details

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| Background: | Involved in several stages of intracellular trafficking. Interacts with membranes phosphatidylinositol 3,4-bisphosphate and/or phosphatidylinositol 4,5-bisphosphate (Probable). Acts in part as component of the retromer membrane-deforming SNX-BAR subcomplex (PubMed:19935774). The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma membrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor membrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Does not have in vitro vesicle-to-membrane remodeling activity (PubMed:23085988). Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptor IGF2R (PubMed:17148574). May function as link between transport vesicles and dynactin (Probable). Negatively regulates retrograde transport of BACE1 from the cell surface to the trans-Golgi network (PubMed:20354142). Involved in E-cadherin sorting and degradation, inhibits PIP5K1C isoform 3-mediated E-cadherin degradation (PubMed:24610942). In association with GIT1 involved in EGFR degradation. Promotes lysosomal degradation of CDKN1B (By similarity). May contribute to transcription regulation (Probable). {ECO:0000250\|UniProtKB:Q6P8X1, ECO:0000269\|PubMed:17148574, ECO:0000269\|PubMed:19935774, ECO:0000269\|PubMed:20354142, ECO:0000269\|PubMed:23085988, ECO:0000269\|PubMed:24610942, ECO:0000303\|PubMed:19935774, ECO:0000303\|PubMed:20830743, ECO:0000305}. |
| Molecular Weight: | 47.5 kDa Including tag. |
| UniProt: | Q9UNH7 |
| Pathways: | EGFR Signaling Pathway |

## Application Details

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| 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

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| 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) |

 