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Datasheet for ABIN3137634
ERN2 Protein (AA 34-911) (rho-1D4 tag)

Overview

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| Quantity: | 1 mg |
| Target: | ERN2 |
| Protein Characteristics: | AA 34-911 |
| Origin: | Mouse |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ERN2 protein is labelled with rho-1D4 tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA |

Product Details

Sequence: VRPESLLFVS TLDGSLHALN KQTGDLKWTV KDDPIIQGPM YVTEMAFLSD PADGSLYVLG
TQKQQGLMKL PFTIPELVHA SPCRSSDGVF YTGRKQDAWF VVDPESETQ MTLTTEGLST
PQLFIGRTQY TVSMHDLRTP ALRWNTTYRR YSAPLLNGSP GKYMSHLTSC GMGLLLTVDP
GSGIVLWTQD LGVPVTGIYT WHQDGLHQLP HLT LARDTLH FLVLRWGHIR LPASSYQDTA
TQFSSLDLTL LMTLYVGKEE AGFYVSKALV HAGVALVPRG LTLAPMDGPT TDEVTLQVSG
EREGSPSTAV RYPSGSVALP SQWLLIGYHE PPPVLHTTML RVHPIPGKVS AETRASEDLH
APPVFFELLN LRREDPELHP EEKASDSYPG LGSQDLLAAT FTAILLGAWV LYLMRQQQQS
PSAPAGPPDL SQDAQGQLSR DILQDQRRFQ SPSEPAQPPH DPEAGQPTVV GKISFNPKDV
LGRGAGGTFV FRGQFEGRAV AVKRLLRECF GLVRREVQLL QESDRHPNVL RYFCTEHGPQ
FHYIALELCQ ASLQEYVESP DLDRWGLEPT TVLQQMMSGL AHLHSLHIVH RDLKPANILM
AGPDSQQGGR VVISDFGLCK KLPVGRCSFS LHSIGPGTEG WMAPELLQLP PDSPTSAVDI
FSAGCVFYVV LSGGSHPFGE SLYRQANILS GDPCLAQLQE ETHDKVVALD LVRAMLSELLP

QDRPSAGWVL AHPLFWSRAK ELQFFQDVSD WLEKEPDQGP LVSALEAGSY KVVREDWHKH
ISAPLQADLK RFRSYKGTSTV RDLLRAMRNK KHHYRELP AE VRQTLGQLPA GFIQYFTQRF
PRLLLHTHRA MRTCASESLF LPYYPPALEA RRPDATKS

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.
- Mouse Ern2 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 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:

Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Product Details

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| 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: | ERN2 |
| Alternative Name: | Ern2 (ERN2 Products) |
| Background: | Role in expression of the DDIT3 transcription factor, required for the unfolded-protein response, growth arrest and apoptosis. Has no effect on 28S ribosomal RNA cleavage, unlike the corresponding human protein. {ECO:0000269 PubMed:9755171}. |
| Molecular Weight: | 98.7 kDa Including tag. |
| UniProt: | Q9Z2E3 |

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 guarantee though. |
| Comment: | Protein has not been tested for activity yet. 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. |

Handling

Expiry Date: Unlimited (if stored properly)