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Datasheet for ABIN3106768 C22orf32 Protein (AA 48-107) (rho-1D4 tag)



Overview

| Overview | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | C22orf32 (SMDT1) |
| Protein Characteristics: | AA 48-107 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This C22orf32 protein is labelled with rho-1D4 tag. |
| Application: | Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB) |
| Product Details | |
| Sequence: | |
| Sequence: | VIVTRSGAIL PKPVKMSFGL LRVFSIVIPF LYVGTLISKN FAALLEEHDI FVPEDDDDDD |
| Sequence: | VIVTRSGAIL PKPVKMSFGL LRVFSIVIPF LYVGTLISKN FAALLEEHDI FVPEDDDDDD Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a |
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| | 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: | Three step purification of membrane proteins expressed in baculovirus infected SF9 insect |
| | cells: |
| | 1. Membrane proteins are fractioned by ultracentrifugation and subsequently solubilized with |
| | different detergents (detergent screen). Samples are analyzed by Western blot. |
| | 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. |
| 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: | C22orf32 (SMDT1) |
| Alternative Name: | SMDT1 (SMDT1 Products) |
| Background: | Essential regulatory subunit of the mitochondrial calcium uniporter complex (uniplex), a |
| | complex that mediates calcium uptake into mitochondria. Required to bridge the calcium- |
| | |
| | sensing proteins MICU1 and MICU2 with the calcium-conducting subunit MCU. |

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| Target Details | | |
|---------------------|---|--|
| Molecular Weight: | 7.9 kDa Including tag. | |
| UniProt: | Q9H4I9 | |
| 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 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) | |