antibodies

## Datasheet for ABIN3112646 COX8A Protein (AA 26-69) (rho-1D4 tag)



1 Image



| Quantity:                     | 1 mg   |
|-------------------------------|--|
| Target:                       | COX8A  |
| Protein Characteristics:      | AA 26-69   |
| Origin:                       | Human  |
| Source:                       | Insect Cells   |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This COX8A protein is labelled with rho-1D4 tag.   |
| Application:                  | ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)   |
| Product Details               |  |
| Sequence:                     | IHSLPPEGKL GIMELAVGLT SCFVTFLLPA GWILSHLETY RRPE   |
|                               | Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a   |
|                               | special request, please contact us.  |
| Characteristics:              | <ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human COX8A Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul> |

• 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.

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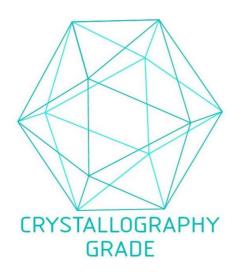
|                   | In the unlikely event that the protein cannot be expressed or purified we do not charge anything  |
|-------------------|---|
|                   | (other companies might charge you for any performed steps in the expression process for   |
|                   | custom-made proteins, 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. |
|                   | 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.   |
| 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:           | COX8A   |
| Alternative Name: | COX8A (COX8A Products)  |
|                   |   |

| Background:       | This protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the |
|-------------------|--|
|                   | terminal oxidase in mitochondrial electron transport.                                    |
| Molecular Weight: | 6.1 kDa Including tag.   |

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| Target Details      |  |
|---------------------|--|
| UniProt:            | P10176   |
| Application Details |  |
| Application Notes:  | In addition to the applications listed above we expect the protein to work for functional studies<br>as well. As the protein has not been tested for functional studies yet we cannot offer a<br>guarantee though.   |
| Comment:            | In cases in which it is highly likely that the recombinant protein with the default tag will be<br>insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to<br>increase solubility. We will discuss all possible options with you in detail to assure that you<br>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

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