

Datasheet for ABIN7560274

## Cytochrome B Reductase 1 Protein (CYBRD1) (AA 1-290) (His tag)



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### Overview

Quantity:	1 mg
Target:	Cytochrome B Reductase 1 (CYBRD1)
Protein Characteristics:	AA 1-290
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Cytochrome B Reductase 1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Cybrd1 Protein expressed in mammalian cells.
Sequence:	MAMEGYRGFL GLLVSALLVG FLSVIFVLIW VLHFREGLGW NGSGLFENWH PVLAVTGFVF IQGIAIVYR LPWTWKCSKL LMKSIHAGLN AVAAILAIS VVAVFEYHNV QKVPHMYSLH SWVGLTALIL YIQLVVGFF VFLLPWAPPS LRAIVMPIHV YSGLLLFGTV IATVLMGVTE KLFFVLKHP S YHSFPPEGVF TNTLGLLILV FGALIFWIVT RPQWKRPREP GSVPLQLNGG NAECRMEGAI AISSAHSMDA ADPADAESSS EGAARKRTL G LADSGQRSTM <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	Cytochrome B Reductase 1 (CYBRD1)
Alternative Name:	Cybrd1 ( <a href="#">CYBRD1 Products</a> )
Background:	Plasma membrane ascorbate-dependent reductase CYBRD1 (EC 7.2.1.3) (Cytochrome b reductase 1) (Duodenal cytochrome b),FUNCTION: Plasma membrane reductase that uses cytoplasmic ascorbate as an electron donor to reduce extracellular Fe(3+) into Fe(2+) (PubMed:17068337). Probably functions in dietary iron absorption at the brush border of duodenal enterocytes by producing Fe(2+), the divalent form of iron that can be transported into enterocytes (PubMed:11230685, PubMed:12547225). It is also able to reduce extracellular monodehydro-L-ascorbate and may be involved in extracellular ascorbate regeneration by erythrocytes in blood (PubMed:17068337). May also act as a ferrireductase in airway epithelial cells (By similarity). May also function as a cupric transmembrane reductase (PubMed:18498772). {ECO:0000250 UniProtKB:Q53TN4, ECO:0000269 PubMed:11230685, ECO:0000269 PubMed:12547225, ECO:0000269 PubMed:17068337, ECO:0000269 PubMed:18498772}.
Molecular Weight:	31.8 kDa
UniProt:	<a href="#">Q925G2</a>

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## Target Details

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Pathways: [Transition Metal Ion Homeostasis](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition 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: 12 months