

Datasheet for ABIN7549651  
**NDOR1 Protein (AA 1-597) (His tag)**



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## Overview

Quantity:	1 mg
Target:	NDOR1
Protein Characteristics:	AA 1-597
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDOR1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant NDOR1 Protein expressed in mammalian cells.
Sequence:	<p>MPSPQLLVLF GSQTGTAQDV SERLGREARR RRLGCRVQAL DSYPPVNLIN EPLVIFVCAT  TGQGDPPDNM KNFWRFIFRK NLPSTALCQM DFAVLGLGDS SYAKNFVAK KLHRRLLQLG  GSALLPVC LG DDQHELGPDA AVDPWLRDLW DRVLGLYPPP PGLTEIPPGV PLPSKFTLLF  LQEAPSTGSE GQRVAHPGSQ EPPSESKPFL APMISNQRVT GPSHFQDVRL IEFDILGSGI  SFAAGDVVLI QPSNSAAHVQ RFCQVLGLDP DQLFMLQPRE PDVSSPTRLP QPCSMRHLVS  HYLDIASVPR RSFFELLACL SLHELEREKL LEFSSAQGQE ELFEYCNRPR RTILEVLCDF  PHTAAIIPPD YLLDLIPVIR PRAFSIASSL LTHPSRLQIL VAVVQFQTRL KEPRRGLCSS  WLASLDPGQG PVRVPLWVRP GSLAFPETPD TPVIMVPGGT GVAPFRAAIQ ERVAQGQTGN  FLFFGCRWRD QDFYWEAEWQ ELEKRDCLTL IPAFSREQEQ KVVYVQHRLRE LGSLVWELLD  RQGAYFYLAG NAKSMPADVS EALMSIFQEE GGLCSPDAAA YLARLQQTRR FQTETWA <b>Sequence</b>  <b>without tag. The proposed Purification-Tag is based on experiences with the expression</b>  <b>system, a different complexity of the protein could make another tag necessary. In case you</b></p>

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### have a special request, please contact us.

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**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:**

- 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

## Target Details

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**Target:** NDOR1

**Alternative Name:** NDOR1 ([NDOR1 Products](#))

**Background:** NADPH-dependent diflavin oxidoreductase 1 (EC 1.18.1.-) (NADPH-dependent FMN and FAD-containing oxidoreductase) (Novel reductase 1),FUNCTION: NADPH-dependent reductase which is a central component of the cytosolic iron-sulfur (Fe-S) protein assembly (CIA) machinery (PubMed:10625700, PubMed:28648056, PubMed:23596212, PubMed:20802492, PubMed:15900210). Transfers electrons from NADPH via its FAD and FMN prosthetic groups to the [2Fe-2S] cluster of CIAPIN1, another key component of the CIA machinery (PubMed:28648056, PubMed:23596212, PubMed:20802492). In turn, this reduced cluster provides electrons for assembly of cytosolic iron-sulfur cluster proteins (PubMed:23596212, PubMed:20802492). It can also reduce the [2Fe-2S] cluster of CISD1 and activate this protein implicated in Fe/S cluster repair (PubMed:28648056). In vitro can fully activate methionine

### Target Details

	synthase/MTR in the presence of soluble cytochrome b5/CYB5A (PubMed:12871938). {ECO:0000255 HAMAP-Rule:MF_03178, ECO:0000269 PubMed:10625700, ECO:0000269 PubMed:12871938, ECO:0000269 PubMed:15900210, ECO:0000269 PubMed:20802492, ECO:0000269 PubMed:23596212, ECO:0000269 PubMed:28648056}.
Molecular Weight:	66.8 kDa
UniProt:	<a href="#">Q9UHB4</a>

### Application Details

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

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