Datasheet for ABIN3084194

NDOR1 Protein (AA 1-597) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	NDOR1
Protein Characteristics:	AA 1-597
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NDOR1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MPSPQLLVLF GSQTGTAQDV SERLGREARR RRLGCRVQAL DSYPVVNLIN EPLVIFVCAT TGQGDPPDNM KNFWRFIFRK NLPSTALCQM DFAVLGLGDS SYAKFNFVAK KLHRRLLQLG GSALLPVCLG DDQHELGPDA AVDPWLRDLW DRVLGLYPPP PGLTEIPPGV PLPSKFTLLF LQEAPSTGSE GQRVAHPGSQ EPPSESKPFL APMISNQRVT GPSHFQDVRL IEFDILGSGI SFAAGDVVLI QPSNSAAHVQ RFCQVLGLDP DQLFMLQPRE PDVSSPTRLP QPCSMRHLVS HYLDIASVPR RSFFELLACL SLHELEREKL LEFSSAQGQE ELFEYCNRPR RTILEVLCDF PHTAAAIPPD YLLDLIPVIR PRAFSIASSL LTHPSRLQIL VAVVQFQTRL KEPRRGLCSS WLASLDPGQG PVRVPLWVRP GSLAFPETPD TPVIMVGPGT GVAPFRAAIQ ERVAQGQTGN FLFFGCRWRD QDFYWEAEWQ ELEKRDCLTL IPAFSREQEQ KVYVQHRLRE LGSLVWELLD RQGAYFYLAG NAKSMPADVS EALMSIFQEE GGLCSPDAAA YLARLQQTRR FQTETWA **Sequence without tag. The proposed Strep-Tag is based on experience s 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.
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • 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. 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. Expression System: • ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. • During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

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 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:	Q9UHB4

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:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's

Application Details

	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months