

Datasheet for ABIN3111765 MT-ND5 Protein (AA 1-603) (Strep Tag)



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Quantity:	250 μg
Target:	MT-ND5
Protein Characteristics:	AA 1-603
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MT-ND5 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details	
Brand:	AliCE®
Sequence:	MTMHTTMTTL TLTSLIPPIL TTLVNPNKKN SYPHYVKSIV ASTFIISLFP TTMFMCLDQE
	VIISNWHWAT TQTTQLSLSF KLDYFSMMFI PVALFVTWSI MEFSLWYMNS DPNINQFFKY
	LLIFLITMLI LVTANNLFQL FIGWEGVGIM SFLLISWWYA RADANTAAIQ AILYNRIGDI GFILALAWFI
	LHSNSWDPQQ MALLNANPSL TPLLGLLLAA AGKSAQLGLH PWLPSAMEGP TPVSALLHSS
	TMVVAGIFLL IRFHPLAENS PLIQTLTLCL GAITTLFAAV CALTQNDIKK IVAFSTSSQL
	GLMMVTIGIN QPHLAFLHIC THAFFKAMLF MCSGSIIHNL NNEQDIRKMG GLLKTMPLTS
	TSLTIGSLAL AGMPFLTGFY SKDHIIETAN MSYTNAWALS ITLIATSLTS AYSTRMILLT
	LTGQPRFPTL TNINENNPTL LNPIKRLAAG SLFAGFLITN NISPASPFQT TIPLYLKLTA
	LAVTFLGLLT ALDLNYLTNK LKMKSPLCTF YFSNMLGFYP SITHRTIPYL GLLTSQNLPL
	LLLDLTWLEK LLPKTISQHQ ISTSIITSTQ KGMIKLYFLS FFFPLILTLL LIT
	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 posttranslational 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:	MT-ND5
Alternative Name:	MT-ND5 (MT-ND5 Products)
Background:	NADH-ubiquinone oxidoreductase chain 5 (EC 7.1.1.2) (NADH dehydrogenase subunit 5),FUNCTION: Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:15250827). Essential for the catalytic activity and assembly of complex I (PubMed:15250827). {ECO:0000269 PubMed:15250827}.
Molecular Weight:	67.0 kDa
UniProt:	P03915
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 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.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months