Datasheet for ABIN7549964

Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4) (AA 1-459) protein (His tag)

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Overview

Quantity:	1 mg
Target:	Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4)
Protein Characteristics:	AA 1-459
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	His tag
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat MT-ND4 Protein expressed in mammalien cells.
Sequence:	MLKLIVPTIM LLPLTWLSKK HMIWINTTTH SLIISIIPLL FFNQINNNLF SCSPTFSSDP LTTPLLMLTT WLLPLTIMAS QRHLSSEPLS RKKLYLSMLI SLQISLIMTF TATELIMFYI FFETTLIPTL AIITRWGNQP ERLNAGTYFL FYTLVGSLPL LIALIYTHNT LGSLNILLLT LTAQELSNSW ANNLMWLAYT MAFMVKMPLY GLHLWLPKAH VEAPIAGSMV LAAVLLKLGG YGMMRLTLIL NPLTKHMAYP FLVLSLWGMI MTSSICLRQT DLKSLIAYSS ISHMALVVTA ILIQTPWSFT GAVILMIAHG LTSSLLFCLA NSNYERTHSR IMILSQGLQT LLPLMAFWWL LASLANLALP PTINLLGELS VLVTTFSWSN ITLLLTGLNM LVTALYSLYM FTTTQWGSLT HHINNMKPSF TRENTLMFMH LSPILLLSLN PDIITGFSS **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.**

Product Details

Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4)
Alternative Name:	MT-ND4 (MT-ND4 Products)
Background:	NADH-ubiquinone oxidoreductase chain 4 (EC 7.1.1.2) (NADH dehydrogenase subunit 4),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:8644732, PubMed:8344246, PubMed:15250827). Essential for the catalytic activity and assembly of complex I (PubMed:8644732, PubMed:8344246, PubMed:15250827). {ECO:0000269|PubMed:15250827, ECO:0000269|PubMed:8344246, ECO:0000269|PubMed:8644732}.
Molecular Weight:	51.6 kDa
UniProt:	P03905

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.
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