

Product Data Sheet

MT-ND1 Protein, Lampetra fluviatilis (Cell-Free, His, SUMO)

Cat. No.:	HY-P702383
Synonyms:	NADH-ubiquinone oxidoreductase chain 1; NADH dehydrogenase subunit 1; MTND1, NADH1, ND1
Species:	Others
Source:	E. coli Cell-free
Accession:	O21069 (M1-M321)
Gene ID:	808818
Molecular Weight:	53.8 kDa

Inhibitors • Screening Libraries • Proteins

PROPERTIES

An Sequence	MLVMLTSTLI	LVLMVLLAVA	FLTMVERKTL	GYMQLRKGPN	
	V V G F M G L L Q P	IADGVKLFLK	EPVWPTAASP	ALFIAAPIMA	
	LTLALSLWMF	IPMPQSISTI	NLTLLVILAI	SSLSVYASLG	
	SGWASNSKYA	LIGALRAVAQ	TISYEVSLGL	ILLCLIILTG	
	GFSLQAFIYT	QEHTWFLLSS	WPLAAMWFVS	TLAETNRTPF	
	DLTEGESELV	SGFNVEYAGG	PFALFFLAEY	SNILFMNTLT	
	AIMFLGPLGP	ΝΝΙΝΙΙΡΙΙΝ	VMMKATPLII	LFLWIRASYP	
	R F R Y D Q L M H L	MWKNFLPLNL	ALFTLQLSLA	VSLGGAGVPQ	
	М				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.				
Endotoxin Level	<1 EU/µg, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is				
	recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers				
	could use it as reference.				
Storage & Stability	Stored at -20°C for 2 years	. After reconstitution, it is st	able at 4°C for 1 week or -20°	'C for longer (with carrier protein). It	is
	recommended to freeze al	liquots at -20°C or -80°C for (extended storage.		
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Snipping	Room temperature in con	tinental US; may vary elsew	nere.		

DESCRIPTION	
Background	The MT-ND1 protein serves as a crucial core subunit within the mitochondrial membrane respiratory chain NADH dehydrogenase, commonly known as Complex I. As an integral component, MT-ND1 is considered part of the minimal

assembly necessary for the catalytic activity of Complex I. This complex plays a vital role in the electron transfer process from NADH to the respiratory chain. It is postulated that the immediate electron acceptor for MT-ND1 and the entire enzyme is ubiquinone, highlighting its significance in facilitating electron transport within the mitochondrial respiratory pathway (according to similarity-based inference). This information underscores the essential function of MT-ND1 in cellular respiration and energy production through mitochondrial processes.

Caution: Product has not been fully validated for medical applications. For research use only.

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA