

Product Data Sheet

NAD-ME Protein, Human (N-His)

Cat. No.:	HY-P71918A
Synonyms:	Malate dehydrogenase; Malic enzyme 2; Malic enzyme 2 mitochondrial; Malic enzyme 2 NAD+; dependent mitochondrial; Malic enzyme mitochondrial; Malic enzyme NAD+; dependent mitochondrial; MAOM_HUMAN; ME 2; ME2; mitochondrial; NAD dependent malic enzyme mitochondrial; NAD ME; NAD-dependent malic enzyme; NAD-ME; ODS1; Pyruvic malic carboxylase
Species:	Human
Source:	E. coli
Accession:	P23368 (L19-E584)
Gene ID:	4200
Molecular Weight:	approximately 65 kD

PROPERTIES

/ ar ocqueriee	LHIKEKGKPL	MLNPRTNKGM	AFTLQERQML	GLQGLLPPKI
	ETQDIQALRF	Н R N L K K M T S P	LEKYIYIMGI	QERNEKLFYR
	ILQDDIESLM	PIVYTPTVGL	ACSQYGHIFR	RPKGLFISIS
	DRGHVRSIVD	ΝΨΡΕΝΗΥΚΑΥ	VVTDGERILG	LGDLGVYGMG
	IPVGKLCLYT	ACAGIRPDRC	LPVCIDVGTD	NIALLKDPFY
	MGLYQKRDRT	QQYDDLIDEF	MKAITDRYGR	NTLIQFEDFG
	NHNAFRFLRK	YREKYCTFND	DIQGTAAVAL	AGLLAAQKVI
	SKPISEHKIL	FLGAGEAALG	IANLIVMSMV	ENGLSEQEAQ
	KKIWMFDKYG	LLVKGRKAKI	DSYQEPFTHS	APESIPDTFE
	DAVNILKPST	IIGVAGAGRL	FTPDVIRAMA	SINERPVIFA
	LSNPTAQAEC	ТАЕЕАҮТЬТЕ	GRCLFASGSP	FGPVKLTDGR
	VFTPGQGNNV	YIFPGVALAV	ILCNTRHISD	SVFLEAAKAL
	TSQLTDEELA	QGRLYPPLAN	IQEVSINIAI	КУТЕҮLҮАNК
	MAFRYPEPED	KAKYVKERTW	RSEYDSLLPD	VYEWPESASS
	ΡΡΥΙΤΕ			
Biological Activity	Measured by its ability to	catalyzed the reduction of N	AD+ to NADH, and the rate o	f NADH increase was measured at 340 nm.
,	The enzyme activity is 5.5	4×10 ³ U/mg prot.		
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Appearance	Lyophilized powder.			
Formulation	Lyophilized from a 0.2 μm	filtered solution of 50 mM T	ris-HCL, 300 mM NaCl, pH 7.4	4.
Endotoxin Level	<1 EU/µg, determined by	LAL method.		
Reconsititution	It is not recommended to	reconstitute to a concentrat	tion less than 100 μg/mL in d	dH ₂ O. For long term storage it is
	recommended to add a ca	arrier protein (0.1% BSA, 5%	HSA, 10% FBS or 5% Trehald	ose).
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 aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

SCRIPTION	
Background	NAD-ME is a mitochondrial malic enzyme characterized by its dependence on NAD and its role in catalyzing the oxidative decarboxylation of malate to pyruvate. This enzymatic activity takes place within the mitochondria, contributing to cellu energy metabolism and the tricarboxylic acid (TCA) cycle. By facilitating the conversion of malate to pyruvate, NAD-ME p a crucial role in linking various metabolic pathways, impacting both energy production and the generation of precursor molecules. This enzymatic function is integral to maintaining the balance of cellular redox reactions and supporting the metabolic demands of the cell.

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

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