
Product Data Sheet

Product Name: MDH2 Human
 Cat. No.: GP21908
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	M-MDH; MDH; MOR1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAKVAVLGAS GGIGQPLSLL LKNSPLVSRL TLYDIAHTPG VAADLSHIET KAAVKGYLGPEQLPDCLKGC DVVVIPAGVP RKPGMTRDDL FNTNATIVAT LTAACAQHCP EAMICVIANP VNSTIPITAEVFKKHGVYNP NKIFGVTTLD IVRANTFVAE LKGLDPARVN VPVIGGHAGK TIIP LISQCT PKVDFPQDQLTALTGRIQEA GTEVVKAKAG AGSATLSMAY AGARFVFSLV DAMNGKEGVV ECSFVKSQET ECTYFSTPLLLGKKGIEKNL GIGKVSSFEE KMISDAIPEL KASIKKGEDF VKTLK.		
Formulation	The MDH2 1mg/ml protein solution contains 20mM Tris-HCl pH-7.5 and 10% glycerol.		

Introduction

MDH2 catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. MDH2 is localized to the mitochondria and takes part in the malate-aspartate shuttle that functions in the metabolic coordination between cytosol and mitochondria. MDH2 is highly expressed in the adrenal system, small intestine, heart and pancreas.

Biological Activity

Specific activity is > 30 units/mg, and is defined as the amount of enzyme that cleaves 1umole of oxalacetate and beta-NADH to L-malate and beta-NAD per minute at pH7.5 at 25°C .

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

MDH2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 335 amino acids (25-338 a.a.) and having a molecular mass of 35.2 kDa. The MDH2 is fused to a 21 amino acid His tag at N-terminus and purified by conventional chromatography.

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