





Human Malate Dehydrogenase 1 (MDH1) ELISA Kit

Product Code	CSB-E13662h
Abbreviation	MDH1
Protein Biological Process 1	Biosynthesis/Metabolism
Target Name	malate dehydrogenase 1, NAD (soluble)
Uniprot No.	P40925
Alias	MDH-s, MDHA, MGC:1375, MOR2, cytosolic malate dehydrogenase soluble malate dehydrogenase
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Tricarboxylic acid cycle
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	9.38 mU/mL-600 mU/mL
Sensitivity	2.35 mU/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	MDH1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Human MDH1 ELISA Kit was designed for the quantitative measurement of Human MDH1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 9.38 mU/mL-600 mU/mL and the sensitivity is 2.35 mU/mL.
Target Details	Malate dehydrogenase catalyzes the reversible oxidation of malate to oxaloacetate, utilizing the NAD/NADH cofactor system in the citric acid cycle. This protein is localized to the cytoplasm and may play pivotal roles in the malate-aspartate shuttle that operates in the metabolic coordination between

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Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to

assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human MDH1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

	Sample	Serum(n=4)
1:1	Average %	95
1.1	Range %	91-99
1:2	Average %	102
	Range %	97-107
1:4	Average %	110
1.4	Range %	107-113
1:8	Average %	86
	Range %	83-89

Recovery

The recovery of human MDH1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	91	88-94
EDTA plasma (n=4)	94	91-99

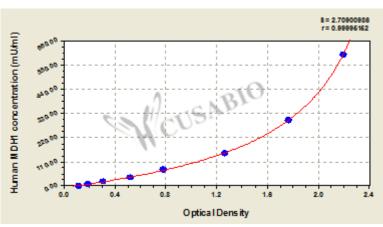
Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.









mU/ml OD1 OD2 Average Corrected

600 2.157 2.198 2.178 2.053 300 1.766 1.738 1.752 1.627 150 1.255 1.269 1.262 1.137 75 0.764 0.798 0.781 0.656 37.5 0.512 0.531 0.522 0.397 18.75 0.305 0.324 0.315 0.190 9.38 0.198 0.188 0.193 0.068 0 0.126 0.124 0.125

Msds

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