

Human Trimethyllysine Dioxygenase, Mitochondrial (TMLHE) ELISA Kit | TMLHE elisa kit

Human Trimethyllysine Dioxygenase, Mitochondrial (TMLHE) ELISA Kit

CATALOG #
AAA330477

REACTIVITY
Human

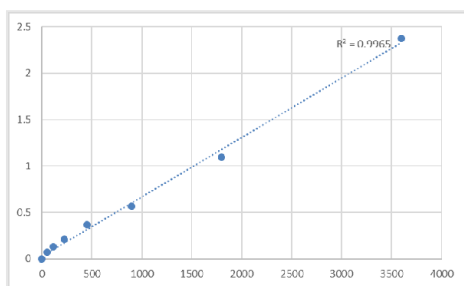
PRODUCT SYNONYMS

Trimethyllysine Dioxygenase; Mitochondrial (TMLHE); Human Trimethyllysine Dioxygenase; Mitochondrial (TMLHE) ELISA Kit; TMLHE; BBOX2; FLJ10727; TMLH; XAP130; butyrobetaine (gamma); 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 2; epsilon-trimethyllysine 2-oxoglutarate; epsilon-trimethyllysine hydroxylase; TMLHE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Trimethyllysine dioxygenase, mitochondrial (TMLHE) ELISA Kit has high sensitivity and excellent specificity for detection of Human TMLHE. No significant cross-reactivity or interference between Human TMLHE and analogues was observed.
Sequence Length	421
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Trimethyllysine dioxygenase, mitochondrial (TMLHE) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TMLHE elisa kit	Description: This Human Trimethyllysine dioxygenase, mitochondrial (TMLHE) ELISA Kit employs a two-site sandwich ELISA to quantitate TMLHE in samples. An antibody specific for TMLHE has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TMLHE present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TMLHE is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TMLHE bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Epsilon-N-trimethyllysine hydroxylase (EC 1.14.11.8) catalyzes the conversion of epsilon-N-trimethyllysine to beta-hydroxy-N-epsilon-trimethyllysine in the first step of L-carnitine biosynthesis. The deduced 421-amino acid human TMLHE and 405-amino acid rat Tmlhe proteins have calculated molecular masses of 49.5 kD and 47.5 kD, respectively, and share 92% amino acid identity. Subcellular fractionation localized rat Tmlhe to mitochondria. Rat Tmlhe was synthesized as a 47.5-kD precursor that is processed to an approximately 43-kD protein, most likely through cleavage of a mitochondrial targeting signal. Gel filtration analysis showed rat Tmlhe as an 87-kD band, suggesting that Tmlhe forms a homodimer.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21542295
NCBI GeneID	55217
UniProt Accession #	Q9NVH6
NCBI Official Full Name	Trimethyllysine dioxygenase, mitochondrial
NCBI Official Synonym Full Names	trimethyllysine hydroxylase, epsilon
NCBI Official Symbol	TMLHE
NCBI Official Synonym Symbols	TMLD; TMLH; BBOX2; AUTSX6; TMLHED; XAP130
NCBI Protein Information	trimethyllysine dioxygenase, mitochondrial
UniProt Protein Name	Trimethyllysine dioxygenase, mitochondrial
UniProt Gene Name	TMLHE
UniProt Synonym Gene Names	TMLH; TML dioxygenase; TMLD
UniProt Entry Name	TMLH_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/trimethyllysine-dioxygenase-mitochondrial-tmlhe/330477>