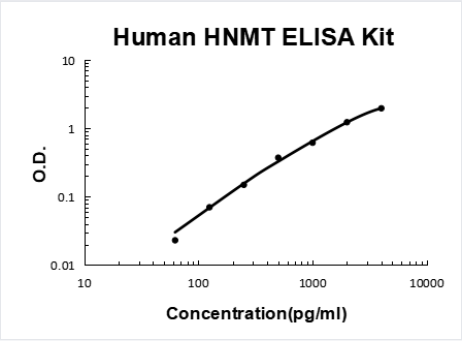
HNMT ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	HNMT, ELISA Kit
Full Product Name	Human HNMT ELISA Kit PicoKine
Product Gene Name	HNMT elisa kit
Species Reactivity	Human
Samples	cell culture supernatants, serum and plasma (heparin, EDTA)
Sensitivity	<10pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Ships with gel ice, can store for up to 3 days in room temperature. Freeze upon receiving.)
Molecular Weight	292
OMIM	605238
3D Structure	ModBase 3D Structure for P50135
Production Time	Due to severe delay and raw materials shortage, production time may takes between 5-8 weeks.
Assay Range	62.5pg/ml-4,000pg/ml
Capture antibody and Detection antibody	a monoclonal antibody from mouse|a biotinylated polyclonal antibody from goat
Immunogen	Expression system for standard: E coli; Immunogen sequence: A2-A292
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Kit Components	Description/Quantity Pre-coated 96-well strip microplate/1 Standard/2 vials, 10 ng/tube Biotinylated antibody (100x)/100ul Avidin-Biotin-Peroxidase Complex (100x)/100ul Sample Diluent/30ml Antibody Diluent/12ml Avidin-Biotin-Peroxidase Diluent/12ml Color Developing Reagent (TMB)/10ml Stop Solution/10ml Wash Buffer (25x)/20ml Adhesive plate sealers/4
Materials Required But Not Provided	Microplate Reader capable of reading absorbance at 450nm. Incubator. Automated plate washer (optional). Pipettes and pipette tips capable of precisely dispensing 0.5ul through 1ml volumes of aqueous solutions. Multichannel pipettes are recommended for large amount of samples. Deionized or distilled water. 500ml graduated cylinders. Test tubes for dilution.
Sample Data	Concentration(pg/ml)062.51252505001,0002,0004,000O.D.0.0490.0720.1190.1980.4210.6651.2782.012
Intra Assay Consistency & Inter Assay Consistency	Intra-Assay PrecisionInter-Assay PrecisionSample123123n161616242424Mean (pg/ml)1136841463110702153 2Standard deviation4.4134.8870.225.7231.5978.13CV (%)3.9%5.1%4.8%5.2%4.5%5.1%

Reproducibility	LotsLot 1 (pg/ml)Lot 2 (pg/ml)Lot 3 (pg/ml)Lot 4 (pg/ml)Mean (pg/ml)Standard DeviationCV (%)Sample 11131211181091154.156.1%Sample 268472170669870242.846.1%Sample 31463152214691463147972.484.9%*number of samples for each test n=16.
Product Categories/Family for HNMT elisa kit	PicoKine ELISA Kits
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for HNMT elisa kit	ELISA (EIA)
Related Product Information for HNMT elisa kit	The brand Picokine indicates this is a premium quality ELISA kit. Each Picokine kit delivers precise quantification, high sensitivity, and excellent reproducibility. Only our most reliable and effective kits qualify as Picokine, guaranteeing top-tier results for your assays.
Other Notes	Small volumes of HNMT elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HNMT purchase	MBS1759798 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the HNMT, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing HNMT. The ELISA analytical biochemical technique of the MBS1759798 kit is based on HNMT antibody-HNMT antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect HNMT antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, HNMT. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of HNMT elisa kit
Human HNMT PicoKine ELISA Kit standard curve

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HNMT. It may not necessarily be applicable to this product.

NCBI GI #	1708272
NCBI GeneID	3176
NCBI Accession #	P50135.1
UniProt Primary Accession #	P50135
UniProt Secondary Accession #	Q546Z6; Q7Z7I2; Q8IU56; Q8WW98; Q9BRW6; B2R9J3
UniProt Related Accession #	P50135
NCBI Official Full Name	Histamine N-methyltransferase
NCBI Official Synonym Full Names	histamine N-methyltransferase
NCBI Official Symbol	HNMT
NCBI Official Synonym Symbols	HMT; HNMT-S1; HNMT-S2

UniProt Protein Name	Histamine N-methyltransferase
Protein Family	Histamine N-methyltransferase
UniProt Gene Name	HNMT
UniProt Synonym Gene Names	HMT
UniProt Entry Name	HNMT_HUMAN
NCBI Protein Information	histamine N-methyltransferase
NCBI Summary for HNMT	In mammals, histamine is metabolized by two major pathways: N(tau)-methylation via histamine N-methyltransferase and oxidative deamination via diamine oxidase. This gene encodes the first enzyme which is found in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. In the mammalian brain, the neurotransmitter activity of histamine is controlled by N(tau)-methylation as diamine oxidase is not found in the central nervous system. A common genetic polymorphism affects the activity levels of this gene product in red blood cells. Multiple alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for HNMT	HNMT: Inactivates histamine by N-methylation. Plays an important role in degrading histamine and in regulating the airway response to histamine. Belongs to the methyltransferase superfamily. HNMT family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: EC 2.1.1.8; Amino Acid Metabolism - histidine; Methyltransferase Chromosomal Location of Human Ortholog: 2q22.1 Cellular Component: nucleoplasm; neuron projection; cytoplasm Molecular Function: histamine N-methyltransferase activity Biological Process: methylation; hyperosmotic response; response to tumor cell; response to glucocorticoid stimulus; respiratory gaseous exchange; brain development; response to cocaine; response to amine stimulus Disease: Asthma, Susceptibility To
Research Articles on HNMT	**1.** The A939G HNMT polymorphism is associated with autoimmune MG, while no association with C314T SNP was found.
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