HNMT Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	HNMT, Blocking Peptide
Full Product Name	HNMT Blocking Peptide (N-term)
Product Gene Name	HNMT blocking peptide
Product Synonym Names	Histamine N-methyltransferase; HMT; HNMT
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 44-58 of HUMAN HNMT
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HNMT peptide (MBS9228551) is used for blocking the activity of HNMT antibody (MBS9214128)
Molecular Weight	6,046 Da
OMIM	605238
Cellular Location	Cytoplasm.
Related Product Information for HNMT blocking peptide	Inactivates histamine by N-methylation. Plays an important role in degrading histamine and in regulating the airway response to histamine.
Other Notes	Small volumes of HNMT blocking peptide 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	MBS9228551 is a blocking peptide targeting HNMT. Also known as HNMT Blocking Peptide (N-term).

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; MRT51; 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: Amino Acid Metabolism - histidine; EC 2.1.1.8; Methyltransferase Chromosomal Location of Human Ortholog: 2q22.1 Cellular Component: cytoplasm; cytosol; neuron projection; nucleoplasm Molecular Function: histamine N-methyltransferase activity Biological Process: brain development; histidine catabolic process; methylation; respiratory gaseous exchange Disease: Asthma, Susceptibility To
Research Articles on HNMT	**1.** HNMT is identified as a novel gene responsible for intellectual disability. The consequences of the identified missense mutations on the protein function are discussed.
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