

Recombinant Human Histamine N-Methyltransferase, His-tagged

Cat. No. HNMT-1704H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HNMT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	Human
ProteinLength	1-292 aa
Description	Histamine N-methyltransferase (HNMT) is found in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. HNMT inactivates histamine by N-methylation. Histamine is involved in regulation and modulation of immune response through the stimulation of four distinct subtypes of receptors, H1, H2, H3, and H4, present on the target cells. Histamine is inactivated by the histamine-metabolizing enzyme histamine N-methyltransferase (HNMT) in bronchus, kidney, and the central nervous system. It plays an important role in degrading histamine and in regulating the airway response to histamine.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 10% glycerol.
Purity	> 95% by SDS - PAGE

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Sequence	1-292 amino acids: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS MRSLFSDHGK YVESFRRFLN HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN NEVVEPSAEQ IAKYKELVAK TSNLENVKFA WHKETSSSEYQ SRMLEKKELQ KWDFIHMIIQM LYYVKDIPAT LKFFHSLGTT NAKMLIIVVS GSS
Molecular Mass	37 kDa (328 aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
GENE INFORMATION	
Gene Name	HNMT histamine N-methyltransferase [Homo sapiens]
Official Symbol	HNMT
Synonyms	EC 2.1.1.8; HMT; HNMT-S1; HNMT-S2; histamine N-methyltransferase; HNMT; 5' and 3' partial
Gene ID	3176
mRNA Refseq	NM_001024074
Protein Refseq	NP_001019245
MIM	605238
UniProt ID	P50135

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Chromosome Location	2q22.1
Pathway	Histidine metabolism
Function	histamine N-methyltransferase activity; methyltransferase activity; transferase activity

Crystallographic structure of human histamine N-methyltransferase

