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**Product Data Sheet**


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Product Name: HNMT Human, Active

Cat. No.: GP21798

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HMT; HNMT-S1; HNMT-S2; MRT51.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS MRSLSFDHGK YVESFRRFLN HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN NEVVEPSAEQ IAKYKELVAK TSNLENVKFA WHKETSSEYQ SRMLEKKELQ KWDFIHMIIQM LYYVKDIPAT LKFFHSLTGT NAKMLIIVVS GSSGWDKLWK KYGSRFPQDD LCQYITSDDL TQMLDNLGLK YECYDLLSTM DISDCFIDGD ENGDLLWDFL TETCNFNATA PPDLRAELGK DLQEPEFSAK KEGKVLFNNT LSFIVIEA.		
Formulation	HNMT protein solution (1mg/ml) containing 20mM, Tris-Hcl (pH8.0) and 10% glycerol.		

**Introduction**

Histamine N-Methyltransferase or HNMT, is located in the cell cytosol. Sadenosyl-L-methionine acts as a methyl donor for HNMT which inactivates histamine. By inactivation of histamine, it affects the immune system's response. HNMT acts on histamine in body tissues such as kidney, central nervous system and bronchus. The protein has a crucial part in the airway response to histamine & histamine degradation process and regulation.

**Biological Activity**

Specific activity is > 200 nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0 nmole of methyl group per minute at 37°C.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

### Background

HNMT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 328 amino acids (1-292 a.a) and having a molecular mass of 37.4kDa. HNMT is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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