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HNMT Human

Catalog #:ENPS-409

For research use only.

Description:HNMT Human Recombinant fused to 36 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 328 amino acids (1-292) and having a molecular mass of 37 kDa. The HNMT is purified by proprietary chromatographic techniques.

Synonyms:HMT, HNMT-S1, HNMT-S2, HNMT, Histamine N-methyltransferase.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered clear colorless solution.

Amino Acid Sequence:MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASS MRSLFSDHGK YVESFRRFLN HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN NEVVEPSAEQ IAKYKELVAK TSNLENVKFA WHKETSSEYQ SRMLEKKELQ KWDFIHMIQM LYYVKDIPAT LKFFHSLLGT NAKMLIIVVS GSSGWDKLWK KYGSRFPQDD LC

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The HNMT solution contains 20mM Tris-HCl pH-8 and 10% glycerol.

Stability:
HNMT Recombinant Human althoμgh stable at 4°C for 30 days, should be stored desiccated below -20°C for periods greater than 30 days. Please avoid freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
HNMT is located in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. In the mammals brain,N(tau)-methylation controls the neurotransmitter activity of histamine since diamine oxidase is not located in the central nervous system. A well known genetic polymorphism influences the activity levels of HNMT gene product in red blood cells. HNMT inactivates histamine by n-methylation. HNMT is involved in degrading histamine and in regulating the airway response to histamine. Histamine is involved in regulation and modulation of immune response throμgh the stimulation of four distinct subtypes of receptors, H1, H2, H3, and H4, that present on the target cells. Histamine is inactivated by the histamine-metabolizing enzyme HNMT in bronchus, kidney, and the central nervous system.

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