
Product Data Sheet

Product Name: HNMT Human
 Cat. No.: GP21797
 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; HNMT; Histamine N-methyltransferase.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS MRSLSFDHGK YVESFRRFLN HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN NEVVEPSAEQ IAKYKELVAK TSNLENVKFA WHKETSSEYQ SRMLEKKELQ KWDFIHMIIQM LYYVKDIPAT LKFFHSLGTT NAKMLIIVVS GSSGWDKLWK KYGSRFPQDD LCQYITSDDL TQMLDNLGLK YECYDLLSTM DISDCFIDGD ENGDLLWDFL TETCNFNATA PPDLRAELGK DLQEPEFSAK KEGKVLFNNT LSFIVIEA.		
Formulation	The HNMT solution contains 20mM Tris-HCl pH-8 and 10% glycerol.		

Introduction

HNMT is located in the cytosol and uses S-adenosyl-L-methionine as the methyl donor. In the mammalian 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 through 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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

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

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HSA or BSA). Please avoid freeze-thaw cycles.

Background

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.

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