

## 32-6805: HNMT Human, Active

**Application :** Functional Assay

**Alternative Name :** HMT, HNMT-S1, HNMT-S2, MRT51.

### Description

Source: Escherichia Coli.

Sterile Filtered clear colorless solution.

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.

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.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 90.0% as determined by SDS-PAGE.

**Content :** HNMT protein solution (1mg/ml) containing 20mM, Tris-Hcl (pH8.0) and 10% glycerol.

**Storage condition :** 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% HSA or BSA). Please avoid freeze-thaw cycles.

**Amino Acid :** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS MRSLFSDHGK YVESFRRFLN  
HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN NEVVEPSAEQ  
IAKYKELVAK TSNLENVKFA WHKETSSEYQ SRMLEKKELQ KWDFIHMIQM LYYVKDIPAT LKFFHSLTGT  
NAKMLIIVVS GSSGWDKLWK KYGSRFPQDD LCQYITSDDL TQMLDNLGLK YECYDLLSTM DISDCFIDGD  
ENGDLLWDFL TETCNFNATA PPDRLAELGK DLQEPEFSK KEGKVLFNNT LSFIVIEA.

### Application Note

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.