

Recombinant human Histamine N-Methyltransferase/HNMT protein

Catalog Number: ATGP0273

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-292aa

UniProt No.

P50135

NCBI Accession No.

AAH20677

Alternative Names

Histamine N-methyltransferase isoform 1, Histamine N-methyltransferase isoform 1, HMT, HNMT-S1, HNMT-S2, Histamine N-methyltransferase isoform 1 EC 2.1.1.8, Histamine N methyltransferase, Hnmt, HNMT S1, HNMT S2.

PRODUCT SPECIFICATION

Molecular Weight

37 kDa (328aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) buffer containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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and in regulating the airway response to histamine. Recombinant human HNMT protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MASS 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 PDLRAELGK DLQEPEPSAK
KEGKVLFNNT LSFIVIEA

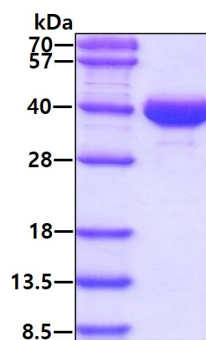
General References

Garcia-Martin E., et al. (2009) *Pharmacogenomics*. 10(5):867-83

Palikhe NS., et al. (2008) *J Clin Pharm Ther*. 33(5):465-72

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.