

AR09152PU-L

Recombinant human HNMT (aa 1-292), His-tagged

Alternate names:

Histamine N-methyltransferase

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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 and in regulating the airway response to histamine.

Uniprot ID:

[P50135](#)

NCBI:

[NP_008826](#)

GeneID:

[3176](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 20 mM Tris-HCl (pH 8.0) buffer containing 10% glycerol

Description:

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

AA Sequence:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMAS MRSLFSDHGK YVESFRRFLN
HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN
NEVVEPSAEQ IAKYKELVAK TSNLENVKFA WHKETSSEYQ SRMLEKKELQ KWDFIHMIMQ
LYYVKDIPAT LKFFHSLGTT NAKMLIIVVS GSSGWDKLWK KYGSRFQDD LCQYITSDDL
TQMLDNLGLK YECYDLLSTM DISDCFIDGD ENGDLLWDFL TETCNFNATA PPDRLAELGK
DLQEPEFSAK KEGKVLFNNT LSFIVIEA

Molecular weight: kDa (328 aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

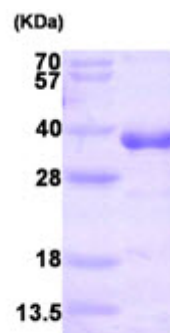
Shelf life: one year from despatch.

General Readings:

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

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

Pictures:



15% SDS-PAGE (3ug)

Recombinant human HNMT (1-292 aa),
His-tagged: 15% SDS-PAGE (3 μ g)

