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Recombinant human Histamine N-Methyltransferase/HNMT protein

Catalog Number: ATGP3727

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-292aa

UniProt No.

P50135

NCBI Accession No.

AAH20677

Alternative Names

Histamine N-methyltransferase isoform 1, HMT, HNMT-S1, HNMT-S2, MRT51

PRODUCT SPECIFICATION

Molecular Weight

37.4 kDa (328aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Endotoxin level

Biological Activity

Specific activity is > 200nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0nmole of methyl group per minute at 37C

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

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

HNMT also known as Histamine N-methyltransferase. HNMT is found in the cytosol and uses S-adenosyl-L-



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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. 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

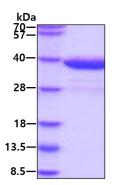
<MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGS>MASS MRSLFSDHGK YVESFRRFLN HSTEHQCMQE FMDKKLPGII GRIGDTKSEI KILSIGGGAG EIDLQILSKV QAQYPGVCIN NEVVEPSAEQ IAKYKELVAK TSNLENVKFA WHKETSSEYQ SRMLEKKELQ KWDFIHMIQM LYYVKDIPAT LKFFHSLLGT NAKMLIIVVS GSSGWDKLWK KYGSRFPQDD LCQYITSDDL TQMLDNLGLK YECYDLLSTM DISDCFIDGD ENGDLLWDFL TETCNFNATA PPDLRAELGK DLQEPEFSAK 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.

