GNMT Protein, Human (His)

Cat. No.:	HY-P70835
Synonyms:	Glycine N-Methyltransferase; GNMT
Species:	Human
Source:	E. coli
Accession:	Q14749 (M1-D295)
Gene ID:	27232
Molecular Weight:	31&80 kDa

PROPERTIES

AA Sequence	M V D S V Y R T R S L G V A A E G L P D Q Y A D G E A A R V W Q L Y I G D T R S R T A E Y K A W L L G L L R Q H G C Q R V L D V A C G T G V D S I M L V E E G F S V T S V D A S D K M L K Y A L K E R W N R R H E P A F D K W V I E E A N W M T L D K D V P Q S A E G G F D A V I C L G N S F A H L P D C K G D Q S E H R L A L K N I A S M V R A G G L L V I D H R N Y D H I L S T G C A P P G K N I Y Y K S D L T K D V T T S V L I V N N K A H M V T L D Y T V Q V P G A G Q D G S P G L S K F R L S Y Y P H C L A S F T E L L Q A A F G G K C Q H S V L G D F K P Y K P G Q T Y I P C Y F I H V L K R T D
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Glycine N-methyltransferase (GNMT) is an enzyme that catalyzes the methylation of glycine using S-adenosylmethionine (AdoMet) as a methyl donor, resulting in the formation of N-methylglycine (sarcosine) and S-adenosylhomocysteine (AdoHcy). This reaction is crucial in the regulation of methyl group metabolism, as GNMT plays a key role in maintaining the

	balance between S-adenosyl-L-methionine and S-adenosyl-L-homocysteine levels. The enzyme is involved in the regulation of one-carbon metabolism and contributes to the control of the cellular methylation potential. The binding of 5-methyltetrahydrofolate is implicated in modulating the activity of GNMT, highlighting its role in coordinating methyl group utilization and homeostasis.

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