

# Recombinant Human Glycine N-methyltransferase, His tagged

**Cat. No.** GNMT-119H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human GNMT protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques, 34.9kDa (315aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Glycine N-methyltransferase, also known as GNMT, catalyzes the synthesis of N-methylglycine (sarcosine) from glycine using S-adenosylmethionine (AdoMet) as the methyl donor. This protein affects DNA methylation by regulating the ratio of S-adenosylmethionine to S-adenosylhomocystine and participates in the detoxification pathway in liver cells. Also it is reported that GNMT expression is diminished in human hepatocellular carcinoma (HCC).
<b>Sequences of amino acids</b>	MGSSHHHHHH SGLVPRGSH MVDSVYRTRS LGVAAEGLPD QYADGEAARV WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR VLDVACGTGV DSIMLVEEGF SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT LDKDVPQSAE GGFDAVICLG NSFALPDCK GDQSEHRLAL KNIA SMVRAG GLLVIDHRNY DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMVT LDYTVQVPGA GQDGSPGLSK FRLSYYPHCL ASFTELLQAA FGGKCQHSVL GDFKPYKPGQ TYIPCYFIHV LKRTD
<b>Formulation</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

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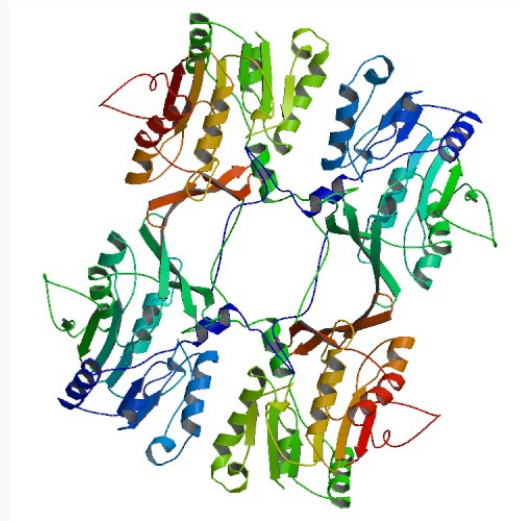
<b>Purity</b>	> 95% by SDS - PAGE
<b>Concentration</b>	1 mg/ml (determined by Bradford assay)
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	GNMT glycine N-methyltransferase [ Homo sapiens ]
<b>Synonyms</b>	glycine N-methyltransferase; glycine N-methyltransferase; EC 2.1.1.20; OTTHUMP00000016412; GNMT
<b>Gene ID</b>	27232
<b>mRNA Refseq</b>	NM_018960
<b>Protein Refseq</b>	NP_061833
<b>MIM</b>	606628
<b>UniProt ID</b>	Q14749
<b>Chromosome Location</b>	6p12
<b>Pathway</b>	Glycine, serine and threonine metabolism
<b>Function</b>	folic acid binding ; glycine N-methyltransferase activity; glycine binding; methyltransferase activity; transferase activity

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PDBrendering based  
on 1bhj. Available  
structures:1bhj,1d2c,1d



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