

Recombinant Human Glycine N-methyltransferase, His tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
Description	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).
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MVDSVYRTRS LGVAAEGLPD QYADGEAARV WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR VLDVACGTGV DSIMLVEEGF SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT LDKDVPQSAE GGFDAVICLG NSFALPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMT LDYTVQVPGA GQDGSPGLSK FRLSYYPHCL ASFTELLQAA FGGKCQHSVL GDFKPYKPGQ TYIPCYFIHV LKRTD
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Storage	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.

GENE INFORMATION

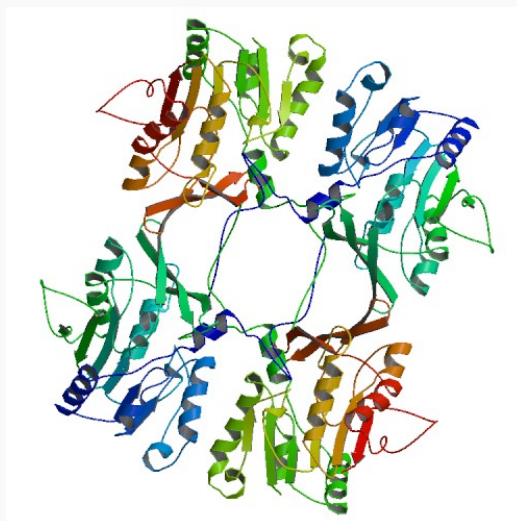
Gene Name	GNMT glycine N-methyltransferase [Homo sapiens]
Synonyms	glycine N-methyltransferase; glycine N-methyltransferase; EC 2.1.1.20; OTTHUMP00000016412; GNMT
Gene ID	27232
mRNA Refseq	NM_018960
Protein Refseq	NP_061833
MIM	606628
UniProt ID	Q14749
Chromosome Location	6p12
Pathway	Glycine, serine and threonine metabolism
Function	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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