

## Active Recombinant Human GNMT Protein, His-tagged, Bioactivity Validated

Cat. No. GNMT-232H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GNMT(1-295aa) fused with His tag at N-terminal was expressed in E. coli. Bioactivity Validated.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-295aa
<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>Form</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol
<b>Bio-activity</b>	Specific activity is > 100 nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0 nmole of methyl group per minute at 37C.
<b>Molecular Mass</b>	34.9 kDa (315aa), confirmed by MALDI-TOF
<b>AA Sequence</b>	MGSSHHHHHH SSGLVPRGSH MVDSVYRTRS LGVAAEGLPD QYADGEEARV

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WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR VLDVACGTGV DSIMLVEEGF  
 SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT LDKDVPQSAE  
 GGFDAVICLG NSFAHLPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY  
 DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMVT LDYTVQVPGA  
 GQDGSPGLSK FRLSYYPHCL ASFTELLQAA FGGKCQHSVL GDFKPYKPGQ  
 TYIPCYFIHV LKRTD

**Purity** > 95% by SDS - PAGE

**Applications** SDS-PAGE

**Storage** Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

**Concentration** 1mg/ml (determined by Absorbance at 280nm)

## GENE INFORMATION

**Gene Name** [GNMT glycine N-methyltransferase \[ Homo sapiens \]](#)

**Official Symbol** [GNMT](#)

**Synonyms** GNMT; glycine N-methyltransferase;

**Gene ID** [27232](#)

**mRNA Refseq** [NM\\_018960](#)

**Protein Refseq** [NP\\_061833](#)

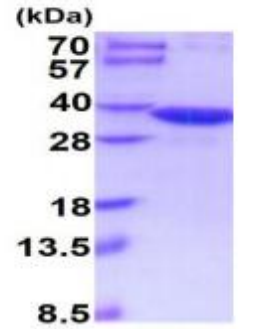
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MIM 606628

UniProt ID Q14749



15% SDS-PAGE (3ug)

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