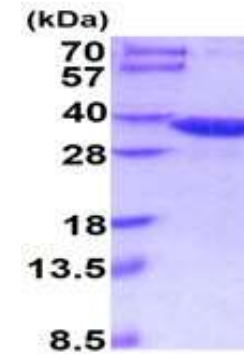


## Glycine N-methyltransferase, Human Recombinant

<b>CATALOG NO:</b>	P1235-10 P1235-50	10 µg 50 µg
<b>ALTERNATE NAMES:</b>	GNMT	
<b>CONCENTRATION:</b>	1 mg/ml	
<b>SOURCE:</b>	<i>E.coli</i> (1-295 aa)	
<b>PURITY:</b>	> 95% by SDS-PAGE	
<b>MOL. WEIGHT:</b>	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 34.9 kDa (315 aa)	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method)	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol	
<b>STORAGE CONDITIONS:</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.	
<b>SEQUENCE:</b>	<p>MGSSHHHHHH SSGLVPRGSH MVDSVYRTRS LGVAAEGLPD          QYADGEAARV WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR          VLDVACGTGV DSIMLVEEGF SVTSVDASDK MLKYALKERW          NRRHEPAFDK WVIEEANWMT LDKDVPQSAE GGFDAVICLG          NSFAHLPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY          DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMVT          LDYTVQVPGA GQDGSPLSK FRLSYYPHCL ASFTELLQAA          FGGKCQHSVL GDFKPYKPGQ TYIPCYFIHV LKRTD</p>	
<b>DESCRIPTION:</b>	<p>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). Recombinant human GNMT protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.</p>	
<b>SPECIFIC 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.	



15% SDS-PAGE (3µg)

Human recombinant GNMT

### RELATED PRODUCT:

- Methyltransferase Activity Assay Kit (Colorimetric) (**Cat. No. K986**)
- Methyltransferase Activity Assay Kit (Fluorometric) (**Cat. No. k521**)
- DNA Methyltransferase 2 Antibody (**Cat. No. 6111**)
- DNA Methyltransferase 3a (Clone 64B1446) Antibody (**Cat. No. 6115**)
- DNA Methyltransferase 3b (Clone 52A1018) Antibody (**Cat. No. 6114**)
- DNA Methyltransferase 3a (Clone 64B814.1) Antibody (**Cat. No. 6113**)
- DNA Methyltransferase 1 (Clone 60B1220.1) Antibody (**Cat. No. 6110**)
- DNA Methyltransferase 2 (Clone 102B1259.2) Antibody (**Cat. No. 6112**)

**FOR RESEARCH USE ONLY! Not to be used on humans.**