

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

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

SPECIFICATION

Product Overview	Recombinant Human GNMT(1-295aa) fused with His tag at N-terminal was expressed in E. coli. Bioactivity Validated.
Species	Human
Source	E.coli
ProteinLength	1-295aa
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).
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol
Bio-activity	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.
Molecular Mass	34.9 kDa (315aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MVDSVYRTRS LGVAAEGLPD QYADGEAARV

 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

WQLYIGDTRS RTAEYKAWLL GLLRQHGCQR VLDVACGTGV DSIMLVEEGF
SVTSVDASDK MLKYALKERW NRRHEPAFDK WVIEEANWMT LDKDVPQSAE
GGFDAVICLG NSFAHLPDCK GDQSEHRLAL KNIASMVRAG GLLVIDHRNY
DHILSTGCAP PGKNIYYKSD LTKDVTTSVL IVNNKAHMT 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

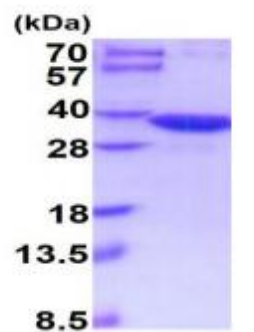
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MIM 606628

UniProt ID Q14749



15% SDS-PAGE (3ug)

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