

## 32-8260: Recombinant Human Guanidinoacetate N-Methyltransferase/GAMT (N, C-6His)

**Gene :** GAMT  
**Gene ID :** 2593  
**Uniprot ID :** Q14353

### Description

Source: E. coli.  
MW :29.5kD.

Recombinant Human GAMT is produced by our E.coli expression system and the target gene encoding Met1-Gly236 is expressed with a 6His tag at the N-terminus, 6His tag at the C-terminus. GAMT is a methyltransferase which belongs to the class I-like SAM-binding methyltransferase superfamily. It contains one RMT2 (arginine N-methyltransferase 2-like) domain and is expressed in liver. GAMT converts guanidoacetate to creatine, using S-adenosylmethionine as the methyl donor. Defects in GAMT are the cause of guanidinoacetate methyltransferase deficiency, which is an autosomal recessive disorder characterized by developmental delay/regression, mental retardation, severe disturbance of expressive and cognitive speech, intractable seizures and movement disturbances, severe depletion of creatine/phosphocreatine in the brain, and accumulation of guanidinoacetic acid in brain and body fluids.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,1mM DTT,pH 8.0 .  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHHSSGLVPRGSHMSAPSATPIFAPGENCSPAWGAAPAAYDAADTHLRILGKPVMERWETPYMH  
ALAAAASSKGGRRVLEVGFGMAIAASKVQEAPIDEHWIIECNDGVFQRLRDWAPRQTHKVIPLKGLWEDVAPTL  
PDGHFDGILYDTPLEETWHTHQFNFIKNHAFRLKPGGVLTVCNLTSWGELMKSYSIDITIMFEETQVPALLE  
AGFRRENIRTEVMALVPPADCRYAFPQMITPLVTKGLEHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.