

Recombinant Protein Technical Manual Recombinant Human GAMT Protein (His Tag) RPES0220

Product Data:

Product SKU: RPES0220	
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Species: Human

Size: 10μg

Expression host: E. coli

Uniprot: Q14353

Protein Information:

Molecular Mass:	29.5 kDa
AP Molecular Mass:	30 kDa
Tag:	N,C-6His
Bio-activity:	
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin:	< 1.0 EU per μg as determined by the LAL method.
Storage:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping:	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.
Formulation:	Supplied as a 0.2 μm filtered solution of 20mM TrisHCl,1mMDTT,pH 8.0 .
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Guanidinoacetate N-methyltransferase; GAMT; PIG2;TP53I2

Sequence: Met 1-Gly236

Background:

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.