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## Datasheet for ABIN7318555 **GAMT Protein (His tag)**



Overview	
Quantity:	50 µg
Target:	GAMT
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAMT protein is labelled with His tag.
Product Details	
Purpose:	Recombinant Human GAMT Protein (His Tag)
Sequence:	Met 1-Gly236
Characteristics:	Recombinant Human Guanidinoacetate N-methyltransferase 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.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per $\mu$ g as determined by the LAL method.

## Target Details

Target:	GAMT
Alternative Name:	GAMT (GAMT Products)
Background:	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)

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## Target Details

	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.
	Synonym: Guanidinoacetate N-methyltransferase, GAMT, PIG2,TP53I2
Molecular Weight:	29.5 kDa
UniProt:	Q14353
Application Details	
Restrictions:	For Research Use only
Handling	
Format:	Frozen, Liquid
Buffer:	Supplied as a 0.2 $\mu m$ filtered solution of 20 mM TrisHCl,1 mMDTT, pH 8.0 .
Storage:	-20 °C
Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.