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**Product Data Sheet**


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Product Name: AMT Human  
 Cat. No.: GP21403  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GCE; GCST; GCVT; NKH; Aminomethyltransferase;mitochondrial; Glycine cleavage system T protein; GCVT.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSAQEVLR TPLYDFHLAH GGKMVAFAGW SLPVQYRDSH TDSHLHTRQHCSLFDVSHML QTKILGSDRV KLMESLVVGD IAELRPNQGT LSLFTNEAGG ILDDLIVTNT SEGHLVVSNAAGCWEKDLAL MQDKVRELQN QGRDVGLEVL DNALLALQGP TAAQVLQAGV ADDLRKLPFM TSAVMEVFGVSGCRVTRCGY TGEDGVEISV PVAGAVHLAT AILKNPEVKL AGLAARDSLRL LEAGLCLYGN DIDEHTTPVEGSLSWTLGKR RRAAMDFPGA KVIVPQLKGR VQRRRVGLMC EGAPMRAHSP ILNMEGTKIG TVTSGCPSPSLKKNVAMGYV PCEYSRPGTM LLVEVRRKQQ MAVVSKMPFV PTNYYTLK.		
Formulation	AMT protein solution (1mg/ml) in Phosphate Buffered Saline, 30% glycerol and 1mM DTT.		

**Introduction**

Aminomethyltransferase, mitochondrial isoform 1 (AMT) is a component of the glycine cleavage system termed T-protein. AMT reversibly catalyzes the degradation of the aminomethyl moiety of glycine attached to the lipoate cofactor of H-protein, leading to the production of ammonia, 5,10-methylenetetrahydrofolate, and dihydrolipoate-bearing H-protein in the presence of tetrahydrofolate.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

AMT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 398 amino acids (29-403 a.a) and having a molecular mass of 43.3kDa. AMT is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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