
Product Data Sheet

Product Name: AS3MT Human

Cat. No.: GP21416

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Arsenite methyltransferase; Methylarsonite methyltransferase; S-adenosyl-L-methionine:arsenic(III) methyltransferase; AS3MT; CYT19; RP11-753C18.6.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAALRD AEIQKDVQTY YGQVLKRSAD LQTNGCVTTA RPVPKHIREA LQNVHEEVAL RYYGCGLVIP EHLENCWILD LGSGSRDCY VLSQLVGEKG HVTGIDMTKG QVEVAEKYLD YHMEKYGFQA SNVTFIHGYI EKLGEAGIKN ESHDIVVSNVCVINLVPDKQQ VLQEAYRVLK HGGELYFSDV YTSLELPEEI RTHKVLWGEC LGGALYWKEL AVLAQKIGFC PPRLV TANLI TIQNKELERV IGDCRFVSAT FRLFKHKTG PTKRCQVIYN GGITGHEKEL MFDANFTFKE GEIVEVDEET AAILKNSRFA QDFLIRPIGE KLPTSGGCSA LELKDIITDP FKLAESDSM KSRCVPDAAG GCCGTTKSC.		
Formulation	AS3MT protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.15M NaCl.		

Introduction

Arsenic Methyltransferase (AS3MT) catalyzes the transfer of a methyl group from S-adenosyl-L-methionine (AdoMet) to trivalent arsenical and may have a role in arsenic metabolism. AS3MT methylates arsenite to produce methylarsonate, Me-AsO₃H₂, which is reduced by methylarsonate reductase to methylarsonite, Me-As(OH)₂. Methylarsonite which is also a substrate, is transformed into the much less toxic complex dimethylarsinate (cacodylate), Me₂As(O)-OH.

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%

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

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

AS3MT Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 399 amino acids (1-375 a.a.) and having a molecular mass of 44.3kDa. AS3MT is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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