

Recombinant Human Arsenic (+3 oxidation state) Methyltransferase, His-tagged

Cat. No. AS3MT-6784H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanAS3MT protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques
Species	Human
Source	E.coli
Description	AS3MT catalyzes thetransfer of a methyl group from S-adenosyl-L-methionine (AdoMet) to trivalentarsenical and may play a role in arsenic metabolism
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 10% glycerol 0.15M NaCl
Molecular Weight	44.3kDa(399aa),confirmed by MALDI-TOF
Purity	> 90% by SDS -PAGE
Concentration	1 mg/ml (determinedby Bradford assay)
Sequences of aminoacids	MGSSHHHHHHSSGLVPRGSH MGSMAALRD AEIQKDVQTY YGQVLKRSAD LQTNGCVTTA RPVPKHIREA LQNVHEEVALRYYGCGLVIP EHLENCWILD LGSGSGRDCY VLSQLVGEKG HVTGIDMTKG QVEVAEKYLD YHMEKYGFQASNVTFIHGYI EKLGEAGIKN ESHDIVVSNC VINLVPDKQQ VLQEAYRVLK HGGELYFSDV YTSLELPEEIRTHKVLWGEC LGGALYWKEL AVLAQKIGFC PPRLVTANLI TIQNKELERV IGDCRFVSAT

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FRLFKHSGTKRCQVIYN GGITGHEKEL MFDANFTFKE GEIVEVDEET
 AAILKNSRFA QDFLIRPIGE KLPTSGGCSALELKDIITDP FKLAEESSDSM
 KSRCVPDAAG GCCGTTKSC

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name AS3MTarsenic (+3 oxidation state) methyltransferase [Homo sapiens]

Official Symbol AS3MT

Synonyms

AS3MT; arsenic (+3 oxidation state)methyltransferase; arsenite methyltransferase; CYT19; 2310045H08Rik; Arsenic(+3 oxidation state) methyltransferase; Arsenite methyltransferase; AS3MT;C10ORF32; CYT19; Cyt19 protein; Hypothetical protein C10orf32; Methylarsonitemethyltransferase; Methyltransferase cyt19; OTTHUMP00000020384;RP11-753C18.6; S adenosylmethionine arsenic (III) methyltransferase;OTTHUMP00000020384; methyltransferase cyt19; methylarsonitemethyltransferase; S-adenosylmethionine:arsenic (III) methyltransferase;S-adenosyl-L-methionine:arsenic(III) methyltransferase; RP11-753C18.6

Gene ID 57412

mRNA Refseq NM_020682

Protein Refseq NP_065733

MIM 611806

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Uniprot ID	Q9HBK9
Chromosome Location	10q24.33
Pathway	arsenate detoxification I, conserved biosystem
Function	arsenite methyltransferase activity; methylarsonite methyltransferase activity; methyltransferase activity; transferase activity

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