

32-2162: AS3MT Recombinant Protein

Alternative Name Arsenite methyltransferase, Methylarsonite methyltransferase, S-adenosyl-L-methionine:arsenic(III) methyltransferase, AS3MT, CYT19, RP11-753C18.6.

Description

Source : Escherichia Coli. 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. 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.

Product Info

Amount :	20 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	AS3MT protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.15M NaCl.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMAALRD AEIQKDVQTY YGQVLKRSAD LQTNGCVTTA RPVPHIREA LQNVHEEVAL RYYGCGLVIP EHLENCWILD LGSGSGRDCY VLSQLVGEKG HVTGIDMTKG QVEVAEKYLD YHMEKYGFQA SNVTFIHGYI EKLGEAGIKN ESHDIVVSNCVINLVPDKQQ VLQEAYRVLK HGGELYFSDV YTSLELP ERI RTHKVLWGEC LGGALYWKEL AVLAQKIGFC PPRLVTANLI TIQNKELERV IGDCRFVSAT FRLFHKSCTG PTKRCQVIYN GGITGHEKEL MFDANFTFKE GEIVEVDEET AAILKNSRFA QDFLIRPIGE KLPTSGGCSA LELKDIITDP FKLAEESSDSM KSRCVPDAAG GCCGTTKSC.