

AS3MT Human

Description: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.

Catalog #:ENPS-622

For research use only.

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

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHH SSGLVPRGSH MGSMAALRD AEIQKDVQTY
YGQVLKRSAD LQTNGCVTTA RPVPKHIREA LQNVHEEVAL RYGCGLVIP EHLENCWILD
LGSGSGRDCY VLSQLVGEKG HVTGIDMTKG QVEVAEKYLD YHMEKYGFQA SNVTFIHGYI
EKLGEAGIKN ESHDIVVSNCVINLVPDKQQ VLQEAYRVLK HGGELYFSDV YTSLELPEEI
RTHKVLWGEC LGG

Purity:Greater than 90.0% as determined by SDS-PAGE.

Formulation:

AS3MT protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.15M NaCl.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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