

arsenite methyltransferase

Cat. No. EXWM-1733

Lot. No. (See product label)

Introduction

Description

An enzyme of the biotransformation pathway that forms dimethylarsinate from inorganic arsenite and arsenate. It methylates arsenite to form methylarsonate, Me-AsO₃H₂, which is reduced by EC 1.20.4.2, methylarsonate reductase, to methylarsonite, Me-As(OH)₂. Methylarsonite is also a substrate for this enzyme (EC 2.1.1.137), which converts it into the much less toxic compound dimethylarsinate (cacodylate), Me₂As(O)-OH.

Synonyms

S-adenosyl-L-methionine:arsenic(III) methyltransferase; S-adenosyl-L-methionine:methylarsonite As-methyltransferase; methylarsonite methyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.1.1.137

CAS No.

167140-41-2

Reaction

(1) S-adenosyl-L-methionine + arsenite = S-adenosyl-L-homocysteine + methylarsonate; (2) S-adenosyl-L-methionine + methylarsonite = S-adenosyl-L-homocysteine + dimethylarsinate

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.