Creative Enzymes®

S-adenosylmethionine synthetase, Recombinant

Cat. No. NATE-1151

Lot. No. (See product label)

Introduction

Description	S-adenosylmethionine synthetase (EC 2.5.1.6) (also known as methionine adenosyltransferase (MAT)) is an enzyme that creates S-adenosylmethionine (AdoMet) by reacting methionine (a non-polar amino acid) and ATP (the basic currency of energy). AdoMet is a methyl donor for transmethylation. It gives away its methyl group and is also the propylamino donor in polyamine biosynthesis. S-adenosylmethionine synthetasecan be considered the rate-limiting step of the methionine cycle.
Synonyms	EC 2.5.1.6; MAT; MATA1; SAMS; SAMS1; Methionine adenosyltransferase 1; S-adenosylmethioninesynthase isoform type-1; AdoMet synthase 1; MAT 1; Methionineadenosyltransferase I/III; MAT-I/III; MAT1A; AMS1

Product Information

Appearance	White powder, lyophilized
EC Number	EC 2.5.1.6
CAS No.	9012-52-6
Molecular Weight	About 46kDa (SDS-PAGE detection)
Purity	>90% (SDS-PAGE test)
Isoelectric point	4.7
pH Stability	7.0-9.5
Buffer	Tris buffer, pH8.0

Storage and Shipping Information

Storage	Redissolved in 30% glycerol, 4°C, store at -20°C/-80°C for long-term preservation, Avoid multiple freeze-thaw cycles.