

## 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 synthetase can be considered the rate-limiting step of the methionine cycle.

**Synonyms** EC 2.5.1.6; MAT; MATA1; SAMS; SAMS1; Methionine adenosyltransferase 1; S-adenosylmethionine synthase isoform type-1; AdoMet synthase 1; MAT 1; Methionine adenosyltransferase 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.