

Recombinant Yeast Adenosine 5' Triphosphate Sulfurylase

Cat. No. ATPS-78Y **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Yeast Adenosine 5' Triphosphate Sulfurylase produced in E.Coli is a non-glycosylated, polypeptide chain which catalyzes the activation of sulfate by transferring sulfate to the adenine monophosphate moiety of ATP to form adenosine 5'-phosphosulfate (APS) and pyrophosphate (PPi). The reaction is reversible: ATP is formed from APS and PPi. Adenosine 5 Triphosphate Sulfurylase is purified by proprietary chromatographic techniques.
Species	Yeast
Source	E.coli
Introduction	ATP sulphurylase synthesizes adenosine 5'-sul-phatophosphate from ATP and inorganic SO ₄ ²⁻ . This is the first reaction of a two step sequence in the formation of "active sulphate", adenosine 3'-phosphate5'-sulphatophosphate, which is a sulphate donor for a wide variety of compounds and is also involved in the reduction of sulphate.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	The protein was lyophilized after dialysis against 10 mM NaP, 100 mM NaCl, 10 mM Lactose, 1% PEG, pH 7.5.
Solubility	It is recommended to reconstitute the lyophilized ATP-sulfurylase in sterile 18 MΩ-cm H ₂ O not less than 100 g/ml, which can then be further diluted to other aqueous

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solutions.

Biological Activity 12 Units/mg.

Stability

Lyophilized Sulfate adenylate transferase although stable at 4°C for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution ATPS should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Synonyms

EC 2.7.7.4; SAT; ATPSK1; PAPSS; PAPSS 1; SK1; ATPS; ATP-sulfurylase; Sulfurylase kinase 1; PAPS Sulfurylase; synthetase 1; Sulfate adenyltransferase; Sulfate adenylate transferase; Methionine-requiring protein 3; 3"-phosphoadenosine 5"-phosphosulfate synthase 1; 3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1; adenosine-5"-triphosphate sulfurylase; adenosinetriphosphate sulfurylase; adenylsulfate pyrophosphorylase; ATP sulfurylase; ATP-sulfurylase; sulfurylase; ATP:sulfate adenyltransferase.

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