

California Bioscience

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Product Datasheet

Product Name	Adenosine 5" Triphosphate Sulfurylase Yeast Recombinant
Cata No	CB500528
Source	Escherichia Coli.
Synonyms	Sulfate adenylyltransferase, EC 2.7.7.4, Sulfate adenylate transferase, SAT,
	ATP-sulfurylase, Methionine-requiring protein 3, ATPS.

Description

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.

Adenosine 5" Triphosphate Sulfurylase Yeast Recombinant produced in E.Coli is a non-glycosylated, polypeptide chain containg 511 amino acids and having a Mw of 57.7 kDa. Adenosine 5" Triphosphate Sulfurylase Yeast Recombinant 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.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

12 Units/mg.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

The ATP sulphurylase protein was lyophilized after dialysis against lyophilized from 10mM NaP buffer, 100mM NaCl, 10mM Lactose, 1% PEG pH 7.5 and 0.75mM DTT.

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.

Sequence

MPAPHGGILQ DLIARDALKK NELLSEAQSS DILVWNLTPR QLCDIELILN GGFSPLTGFL NENDYSSVVT DSRLADGTLW TIPITLDVDE AFANQIKPDT RIALFQDDEI PIAILTVQDV YKPNKTIEAE KVFRGDPEHP AISYLFNVAG DYYVGGSLEA IQLPQHYDYP GLRKTPAQLR LEFQSRQWDR VVAFQTRNPM HRAHRELTVR AAREANAKVL IHPVVGLTKP GDIDHHTRVR VYQEIIKRYP NGIAFLSLLP LAMRMSGDRE AVWHAIIRKN YGASHFIVGR DHAGPGKNSK GVDFYGPYDA QELVESYKHE DIEVVPFRM VTYLPDEDRY APIDQIDTTK TRTLNISGTE LRRRLRVGGE IPEWFSYPEV VKILRESNPP RPKQGFSIVL GNSLTVSREQ LSIALLSTFL QFGGGRYYKI FEHNNKTELL SLIQDFIGSG SGLIIPNQWE DDKDSVVGKQ



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NVYLLDTSSS ADIQLESADE PISHIVQKVV

LFLEDNGFFV F.

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