

## OriGene Technologies Inc.

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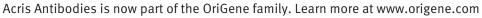
## AR10437PU-L OriGene EU

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## Yeast Sulfate adenylyltransferase - Purified

Catalog No.:	AR10437PU-L
Quantity:	0.1 kIU
Background:	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.
Uniprot ID:	<u>P08536</u>
NCBI:	<u>NP_012543.1</u>
GenelD:	<u>853466</u>
Species:	Yeast
Source:	E. coli
Format:	<ul> <li>State: Sterile Filtered White lyophilized (freeze-dried) powder</li> <li>Buffer System: Lyophilized after dialysis against lyophilized from 10mM NaP buffer, 100mM NaCl, 10mM Lactose, 1% PEG pH 7.5 and 0.75mM DTT.</li> <li>Reconstitution: Spin vial before opening. Restore ATP sulphurylase with 5mM NaP pH-7.5 and 0.75mM DTT at a concentration ranging from 0.1-1 mg/ml.</li> <li>Can be diluted further into other aqueous buffers. pH range between 7.0-8.5 is best.</li> </ul>
<b>Description:</b>	Recombinant Yeast Adenosine 5" Triphosphate Sulfurylase produced in <i>E.coli</i> is a non- glycosylated, polypeptide chain containg 511 amino acids and having a Molecuar weight of 57.7 kDa. Recombinant Yeast Adenosine 5" Triphosphate Sulfurylase 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. Unit Definition: One unit produces 1.0 µmole of ATP from APS and inorganic phosphate per min. at pH 8.0 and 30°C. <b>AA Sequence:</b> MPAPHGGILQ DLIARDALKK NELLSEAQSS DILVWNLTPR QLCDIELILN GGFSPLTGFL NENDYSSVVT DSRLADGTLW TIPITLDVDE AFANQIKPDT RIALFQDDEI PIAILTVQDV YKPNKTIEAE KVPFGDPEHP AISYLFNVAG DYYVGGSLEA IQLPQHYDYP GLRKTPAQLR LEFQSRQWDR VVAFQTRNPM HRAHRELTVR AAREANAKVL IHPVVGLTKP GDIDHHTRVR VYQEIIKRYP NGIAFLSLLP LAMRMSGDRE AVWHAIIRKN YGASHFIVGR DHAGPGKNSK GVDFYGPTDA QELVESYKHE DIEVVPFRM VTYLPDEDRY APIDQIDTTK TRTLNISGTE LRRRLRVGGE IPEWFSYPEV VKILRESNPP RPKQGFSIVL GNSLTVSREQ LSIALLSTFL QFGGGRYYKI FEHNNKTELL SLIQDFIGSG SGLIIPNQWE DDKDSVVGKQ NVYLLDTSSS ADIQLESADE PISHIVQKVV LFLEDNGFFV F. <b>Biological Activity: 12 Units/mg</b>

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.





MS/20120910



Storage:

AR10437PU-L: Yeast Sulfate adenylyltransferase - Purified

Prior to reconstitution store at 2-8°C for one month or desiccated below -18°C. Following reconstitution store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

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