

# Recombinant human PAPSS1 protein

Catalog Number: ATGP1390

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-624aa

### UniProt No.

O43252

### NCBI Accession No.

NP\_005434

### Alternative Names

Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1, ATPSK1, PAPSS, SK1

## PRODUCT SPECIFICATION

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### Molecular Weight

70.9 kDa (626aa)

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PAPSS1, also known as bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1, is a bifunctional enzyme with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate activation pathway, yielding 3'-phosphoadenylylsulfate (PAPS). PAPSS1 is also involved in the biosynthesis of sulfated L-selectin ligands in endothelial cells. Recombinant human PAPSS1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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## Amino acid Sequence

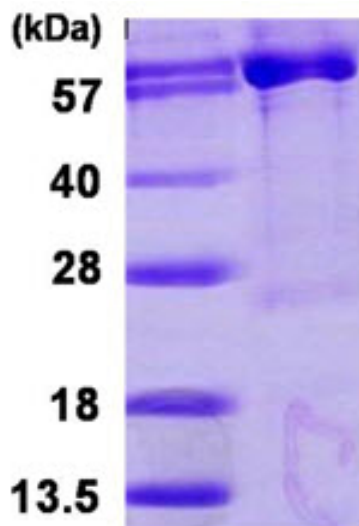
MGSSHHHHHH SSSLVPRGSH MGSMMRATNV TYQAHHSRN KRGQVVGTRG GFRGCTVWLT GLSGAGKTTV  
SMALEEYLVC HGIPCYTLDG DNIRQGLNKN LGFSPEDREE NVRRIAIEVAK LFADAGLVCV TSFISPYTQD RNNARQIHEG  
ASLPFFFEV FV DAPLHVCEQR DVKGLYKKAR AGEIKGFTGI DSEYEKPEAP ELVLKTDSCD VNDCVQQVVE LLQERDIVPV  
DASYEVKELY VPENKLHLAK TDAETLPALK INKVDMQWVQ VLAEGWATPL NGFMREREYL QCLHFDCLLD GGVINLSVPI  
VLTATHEDKE RLDGCTAFAL MYEGRRVAIL RNPEFFEHRK EERCARQWGT TCKNHPYIKM VMEQGDWLG GDLQVLDRVY  
WNDGLDQYRL TPTELKQKFK DMNADAVFAF QLRNPVHNGH ALLMQDTHKQ LLERGYRRPV LLLHPLGGWT  
KDDDVPLMWR MKQHAAVLEE GVLNPETTVV AIFPSPMYA GPTEVQWHCR ARMVAGANFY IVGRDPAGMP  
HPETGKDLYE PSHGAKVLTM APGLITLEIV PFRVAAYNKK KKRMDYYDSE HHEDFEFISG TRMRKLAREG QKPPEGFMAP  
KAWTVLTEYY KSLEKA

## General References

Girard J.-P., et al. (1998) FASEB J. 12:603-612  
Venkatachalam K.V., et al. (1999) J. Biol. Chem. 274:2601-2604

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)