Recombinant human PAPSS1 protein

Catalog Number: ATGP1390

PRODUCT INFORMATION

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

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

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.

Recombinant human PAPSS1 protein

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Amino acid Sequence

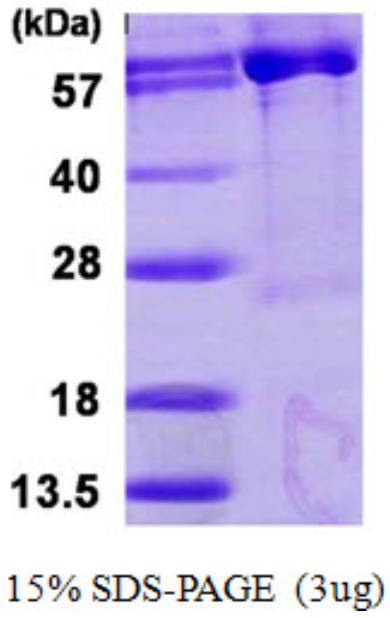
MGSSHHHHHH SSGLVPRGSH MGSHMRATNV TYQAHHVSRN KRGQVVGTRG GFRGCTVWLT GLSGAGKTTV SMALEEYLVC HGIPCYTLDG DNIRQGLNKN LGFSPEDREE NVRRIAEVAK LFADAGLVCI TSFISPYTQD RNNARQIHEG ASLPFFEVFV DAPLHVCEQR DVKGLYKKAR AGEIKGFTGI DSEYEKPEAP ELVLKTDSCD VNDCVQQVVE LLQERDIVPV DASYEVKELY VPENKLHLAK TDAETLPALK INKVDMQWVQ VLAEGWATPL NGFMREREYL QCLHFDCLLD GGVINLSVPI VLTATHEDKE RLDGCTAFAL MYEGRRVAIL RNPEFFEHRK EERCARQWGT TCKNHPYIKM VMEQGDWLIG GDLQVLDRVY WNDGLDQYRL TPTELKQKFK DMNADAVFAF QLRNPVHNGH ALLMQDTHKQ LLERGYRRPV LLLHPLGGWT KDDDVPLMWR MKQHAAVLEE GVLNPETTVV AIFPSPMMYA 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



15% SDS-PAGE (3ug)

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