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**Product Data Sheet**


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Product Name: PAPSS1 Human  
 Cat. No.: GP22047  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	3'-phosphoadenosine 5'-phosphosulfate synthase 1; ATPSK1; PAPSS 1; SK 1; 3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1; bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1; PAPS synthase 1; Sulfurylase kinase 1; EC 2.7.1.25.		
Amino Acid Sequence	<p>MGSSHHHHHH SSGLVPRGSH MGSHMRATNV TYQAHHVS RN KRGQVVGTRG          GFRGCTVWLT GLSGAGKTTV SMALEEYLVC HGIPCYTLDG DNIRQGLNKN          LGFSPEDREE NVRRIA EVAK LFADAGLVCI TSFISPYTQD RNNARQIHEG          ASLPFFEVFV DAPLHVCEQR DVKGLYKKAR AGEIKGFTGI DSEYEKPEAP          ELVLKTDSCD VNDCVQQVVE LLQERDIVPV DASYEKELY VPENKLHLAK          TDAETLPALK INKVDMQWVQ VLAEGWATPL NGFMREREYL QCLHFDCLLD          GGVINLSVPI VLTATHEDKE RLDGCTAFAL MYEGRRVAIL RNPEFFEHRK          EERCARQWGT TCKNHPYIKM VMEQGDWLG GDLQVLDRVY WNDGLDQYRL          TPTLQKQKFK DMNADAVFAF QLRNPVHNGH ALLMQDTHKQ LLERGYRRPV          LLLHPLGGWT KDDDVPLMWR MKQHA AVLEE GVLNPETTVV AIFPSPMMYA          GPTEVQWHCR ARMVAGANFY IVGRDPAGMP HPETGKDLYE PSHGAKVLTM          APGLITLEIV PFRVAAYNKK KKRMDYYDSE HHEDFEFISG TRMRKLAREG          QKPPEGFMAP KAWTVLTEYY KSLEKA.</p>		
Formulation	The PAPSS1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 20% glycerol.		

**Introduction**

PAPSS1 is a bifunctional enzyme with APS kinase and ATP sulfurylase activity. PAPSS1 facilitates two stages in the sulfate activation pathway, yielding 3'-phosphoadenylylsulfate (PAPS). Additionally, PAPSS1 takes part in the biosynthesis of sulfated L-selectin ligands in endothelial cells.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PAPSS1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 626 amino acids (24-624) and having a molecular mass of 70.9kDa. PAPSS1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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