

**PAPSS1, 24-624aa, Human, His tag, E.coli**

**Cat.NO.: TP03289**

3th Edition

**Synonyms:**Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1, ATPSK1, PAPSS, SK1.

**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.

**Form:**Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl

**Molecular Weight:**70.9 kDa (626aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMRATNVTYQAAHVSRNKRQVVGTRGGFRGCTVWLTGLSGAGKTTVSM  
ALEEYL VCHGIPCYTLDGDNIRQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRNNARQIHEG  
ASLPFFFEVFDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKTDCDVNDCVQQVVELLQERDI  
VPVDASYEVKELYVPENKLHLAKTDAETLPALKINKVDMQWVQVLAEGWATPLNGFMREREYLQCLHFDCLLDGG  
VINLSVPIVLTATHEDKERLDGCTAFALMYEGRRVAILRNPEFFEHKKEERCARQWGTTCKNHPYIKM/MEQGDWL  
IGGDLQVLDRVYWNDGLDQYRLTPTTELKQKFKDMNADAVFAFQLRNVPVHNGHALLMQDTHKQLLERYRRPVLLL  
HPLGGWTKDDDVLPMWRMKQHAHVLEEGVLNPETTVAIFPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDP  
AGMPHPETGKDLYEPSHGAKVLTMAPGLITLEIVPFRVAAYNKKKKRMDYYDSEHHEDFEFISGTRMRKLAREGQK  
PPEGFMAPKAWTVLTEYYKSLEKA

**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.