

## PAPSS1 Human

**Description:** 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.

**Catalog #:** ENPS-243

For research use only.

**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.

**Source:** E.coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMRATNV TYQAHHVS RN  
KRGQVVGTRG GFRGCTVWLT GLSGAGKTTV SMALEEYLVC HGIPCYTLTG DNIRQGLNKN  
LGFSPEDREE NVRRIAEVAK LFADAGLVCI TSFISPYTQD RNNARQIHEG ASLPFFEVFV  
DAPLHVCEQR DVKGLYKKAR AGEIKGFTGI DSEYEKPEAP ELVLKTDSCD VNDCVQQVVE  
LLQERDIVPV DA

**Purity:** Greater than 85% as determined by SDS-PAGE.

### Formulation:

The PAPSS1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 20% glycerol.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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