

## Product datasheet for TP317023

### PAPSS1 (NM\_005443) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins  
**Description:** Recombinant protein of human 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (PAPSS1), 20 µg  
**Species:** Human  
**Expression Host:** HEK293T  
**Expression cDNA Clone or AA Sequence:** >RC217023 representing NM\_005443  
Red=Cloning site Green=Tags(s)

MEIPGSLCKKVKLSNNAQNWGMQRATNVTYQAHHVS RNKRQVVGTRGGFRGCTVWLTGLSGAGKTT  
VSM  
ALEEYL VCHGIPCYTL DGDNIRQGLNKNLGFSPEDREENVRRIAEVAKL FADAGLVCITSFISPYTQDRN  
NARQIHEGASLPFFEVFVDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKT DSCDVN  
DCVQQVVELLQERDIVPVDASYEVKELYVPENKLHLAKTDAETLPALKINKVDMQVWVQVLAEGWATPLN  
G  
FMREREYLQCLHFDCLLDGGVINLSVPIVLTATHEDKERLDGCTAFALMYEGRRVAILRNPEFFEHRKEE  
RCARQWGTTCKNHPYIKMVMEQGDWLIGGDLQVLDRVYWNDGLDQYRLTPTELKQKFKDMNADAVFA  
FQL  
RNPVHNGHALLMQDTHKQLLERYRRPVLLLHPLGGWTKDDD VPLMWRMKQHAAVLEEGVLNPETTV  
VAI  
FPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDPAGMPHPETGKDLYEP SHGAKVLTMAPGLITLEIVP  
F  
RVAAYNKKKKRMDYYDSEHHEDFEFISGTRMRKLAREGQKPPEGFMAPKAWTVLTEYYKSLEKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

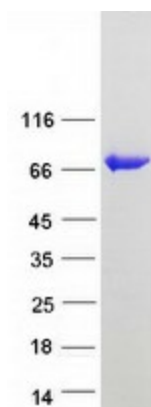
**Tag:** C-Myc/DDK  
**Predicted MW:** 70.7 kDa  
**Concentration:** >0.05 µg/µL as determined by microplate BCA method  
**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining  
**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_005434</u>
<b>Locus ID:</b>	9061
<b>UniProt ID:</b>	<u>O43252</u>
<b>RefSeq Size:</b>	2558
<b>Cytogenetics:</b>	4q25
<b>RefSeq ORF:</b>	1872
<b>Synonyms:</b>	ATPSK1; PAPSS; SK1
<b>Summary:</b>	Three-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) is the sulfate donor cosubstrate for all sulfotransferase (SULT) enzymes (Xu et al., 2000 [PubMed 10679223]). SULTs catalyze the sulfate conjugation of many endogenous and exogenous compounds, including drugs and other xenobiotics. In humans, PAPS is synthesized from adenosine 5-prime triphosphate (ATP) and inorganic sulfate by 2 isoforms, PAPSS1 and PAPSS2 (MIM 603005).[supplied by OMIM, Mar 2008]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Purine metabolism, Selenoamino acid metabolism, Sulfur metabolism

### Product images:



Coomassie blue staining of purified PAPSS1 protein (Cat# TP317023). The protein was produced from HEK293T cells transfected with PAPSS1 cDNA clone (Cat# [RC217023]) using MegaTran 2.0 (Cat# [TT210002]).