

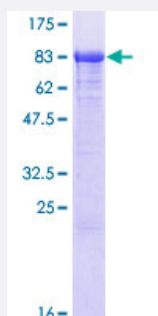
Full-Length

PAPSS1 (Human) Recombinant Protein (P01)

Catalog # H00009061-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PAPSS1 full-length ORF (AAH11392.1, 1 a.a. - 603 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MQRATNVITYQAAHVSRNKRQVVGTRGGFRGCTVWLTGLSGAGKTTVSMALEEYLVCHGIPCYT
 LDGDNIRQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRNNARQIHEGASLP
 FFEVFDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVKTDSCDVNDQVQV
 VELLQERDVPVDASYEVKELYVPENKLHLAKTDAETLPALKINKVDMQWVQVLAEGWATPLNGF
 MREREYLQCLHFDCLLDGGVINLSVPVLTATHEDKERLDGCTAFALMYEGRRVAILRNPEFFEHR
 KEERCARQWGTTCKNHPYIKMVMEQGDWLIGGDLQVLDVYVNDGLDQYRLTPTTELKQKFKDM
 NADAVFAFQLRNPVHNGHALLMQDTHKQLLERGYRRPVLLLHPLGGWTKDDDVPMLMRMKQHA
 AVLEEGVLNPETTVAIFPSPMMYAGPTEVQWHCRARMVAGANFYVGRDPAGMPHPETGKDLY
 EPSHGAKVLTMAPGLITLEVPRVAAYNKKKKRMDYYDSEHHEDFEFISGTRMRKLAREGQKPP
 EGFMAPKAWTVLTEYYKSLEKA

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

94.9

Interspecies Antigen Sequence

Mouse (98); Rat (90)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PAPSS1

Entrez GeneID	9061
GeneBank Accession#	BC011392.1
Protein Accession#	AAH11392.1
Gene Name	PAPSS1
Gene Alias	ATPSK1, PAPSS, SK1
Gene Description	3'-phosphoadenosine 5'-phosphosulfate synthase 1
Omim ID	603262
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1

Pathway

- [Metabolic pathways](#)
- [Purine metabolism](#)
- [Selenoamino acid metabolism](#)
- [Sulfur metabolism](#)

Disease

- [Alcoholism](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Hepatitis B](#)
- [Liver Neoplasms](#)