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# Product datasheet for PH317023

## PAPSS1 (NM_005443) Human Mass Spec Standard

### Product data:

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|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | PAPSS1 MS Standard C13 and N15-labeled recombinant protein (NP_005434) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC217023 |
| **Predicted MW:** | 70.7 kDa |
| **Protein Sequence:** | >RC217023 representing NM_005443<br>Red=Cloning site Green=Tags(s)<br><br>MEIPGSLCKKVKLSNNAQNWGMQRATNVTYQAHHVSRNKRGQVVGTRGGFRGCTVWLTGLSGAGKTTVSM<br>ALEEYLVCHGIPCYTLDGDNIRQGLNKNLGFSPEDREENVRRIAEVAKLFADAGLVCITSFISPYTQDRN<br>NARQIHEGASLPFFEVFVDAPLHVCEQRDVKGLYKKARAGEIKGFTGIDSEYEKPEAPELVLKTDSCDVN<br>DCVQQVVELLQERDIVPVDASYEVKELYVPENKLHLAKTDAETLPALKINKVDMQWVQVLAEGWATPLNG<br>FMREREYLQCLHFDCLLDGGVINLSVPIVLTATHEDKERLDGCTAFALMYEGRRVAILRNPEFFEHRKEE<br>RCARQWGTTCKNHPYIKMVMEQGDWLIGGDLQVLDRVYWNDGLDQYRLTPTELKQKFKDMNADAVFAFQL<br>RNPVHNGHALLMQDTHKQLLERGYRRPVLLLHPLGGWTKDDDVPLMWRMKQHAAVLEEGVLNPETTVVAI<br>FPSPMMYAGPTEVQWHCRARMVAGANFYIVGRDPAGMPHPETGKDLYEPSHGAKVLTMAPGLITLEIVPF<br>RVAAYNKKKKRMDYYDSEHHEDFEFISGTRMRKLAREGQKPPEGFMAPKAWTVLTEYYKSLEKA<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Labeling Method:** | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| **Storage:** | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| **Stability:** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **RefSeq:** | NP_005434 |
| **RefSeq Size:** | 2558 |
| **RefSeq ORF:** | 1872 |

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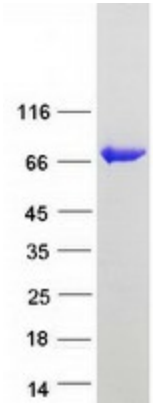
|---|---|
| **Synonyms:** | ATPSK1; PAPSS; SK1 |
| **Locus ID:** | 9061 |
| **UniProt ID:** | O43252 |
| **Cytogenetics:** | 4q25 |
| **Summary:** | Three-prime-phosphoadenosine 5-prime-phosphosulfate (PAPS) is the sulfate donor cosubstrate for all sulfotransferase (SULT) enzymes (Xu et al., 2000 [PubMed 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, Mar 2008] |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | 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]).