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# Product datasheet for PH300551

## PAPSS2 (NM_004670) Human Mass Spec Standard

### Product data:

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| **Product Type:** | Mass Spec Standards |
| **Description:** | PAPSS2 MS Standard C13 and N15-labeled recombinant protein (NP_004661) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC200551 |
| **Predicted MW:** | 69.5 kDa |
| **Protein Sequence:** | >RC200551 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MSGIKKQKTENQQKSTNVVYQAHHVSRNKRGQVVGTRGGFRGCTVWLTGLSGAGKTTISFALEEYLVSHA<br>IPCYSLDGDNVRHGLNRNLGFSPGDREENIRRIAEVAKLFADAGLVCITSFISPFAKDRENARKIHESAG<br>LPFFEIFVDAPLNICESRDVKGLYKRARAGEIKGFTGIDSDYEKPETPERVLKTNLSTVSDCVHQVVELL<br>QEQNIVPYTIIKDIHELFVPENKLDHVRAEAETLPSLSITKLDLQWVQVLSEGWATPLKGFMREKEYLQV<br>MHFDTLLDDGVINMSIPIVLPVSAEDKTRLEGCSKFVLAHGGRRVAILRDAEFYEHRKEERCSRVWGTTC<br>TKHPHIKMVMESGDWLVGGDLQVLEKIRWNDGLDQYRLTPLELKQKCKEMNADAVFAFQLRNPVHNGHAL<br>LMQDTRRRLLERGYKHPVLLLHPLGGWTKDDDVPLDWRMKQHAAVLEEGVLDPKSTIVAIFPSPMLYAGP<br>TEVQWHCRSRMIAGANFYIVGRDPAGMPHPETKKDLYEPTHGGKVLSMAPGLTSVEIIPFRVAAYNKAKK<br>AMDFYDPARHNEFDFISGTRMRKLAREGENPPDGFMAPKAWKVLTDYYRSLEKN<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_004661 |
| **RefSeq Size:** | 3859 |
| **RefSeq ORF:** | 1842 |

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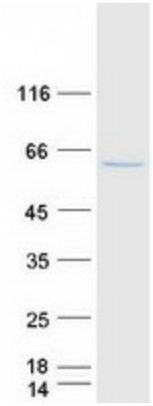
|---|---|
| **Synonyms:** | ATPSK2; BCYM4; SK2 |
| **Locus ID:** | 9060 |
| **UniProt ID:** | O95340, Q5TB52 |
| **Cytogenetics:** | 10q23.2-q23.31 |
| **Summary:** | Sulfation is a common modification of endogenous (lipids, proteins, and carbohydrates) and exogenous (xenobiotics and drugs) compounds. In mammals, the sulfate source is 3'-phosphoadenosine 5'-phosphosulfate (PAPS), created from ATP and inorganic sulfate. Two different tissue isoforms encoded by different genes synthesize PAPS. This gene encodes one of the two PAPS synthetases. Defects in this gene cause the Pakistani type of spondyloepimetaphyseal dysplasia. Two alternatively spliced transcript variants that encode different isoforms have been described for this gene. [provided by RefSeq, Jul 2008] |
| **Protein Families:** | Druggable Genome |
| **Protein Pathways:** | Metabolic pathways, Purine metabolism, Selenoamino acid metabolism, Sulfur metabolism |

## Product images:




Coomassie blue staining of purified PAPSS2 protein (Cat# [TP300551]). The protein was produced from HEK293T cells transfected with PAPSS2 cDNA clone (Cat# [RC200551]) using MegaTran 2.0 (Cat# [TT210002]).