

Recombinant Mouse Papss1 Protein, Myc/DDK-tagged

Cat. No. Papss1-4674M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (cDNA clone MGC:91299 IMAGE:6833756), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Bifunctional enzyme with both ATP sulfurylase and APS kinase activity, which mediates two steps in the sulfate activation pathway. The first step is the transfer of a sulfate group to ATP to yield adenosine 5'-phosphosulfate (APS), and the second step is the transfer of a phosphate group from ATP to APS yielding 3'-phosphoadenylylsulfate (PAPS: activated sulfate donor used by sulfotransferase). In mammals, PAPS is the sole source of sulfate; APS appears to be only an intermediate in the sulfate-activation pathway. Required for normal biosynthesis of sulfated L-selectin ligands in endothelial cells.
Molecular Mass	68.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Papss1 3'-phosphoadenosine 5'-phosphosulfate synthase 1 [Mus musculus (house mouse)]

Official Symbol [Papss1](#)

Synonyms Papss1; 3'-phosphoadenosine 5'-phosphosulfate synthase 1; A; SK; SK1; Asapk; AI325286; bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1; PAPS synthase 1; PAPSS 1; SK 1; sulfurylase kinase 1; EC 2.7.1.25; EC 2.7.7.4

Gene ID [23971](#)

mRNA Refseq [NM_011863](#)

Protein Refseq [NP_035993](#)

UniProt ID [Q60967](#)

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