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**Recombinant Human PAPS Synthase 1/PAPSS1 Protein(C-6His)****Cat.NO.: TP05778**

3th Edition

**Synonyms:**Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1;PAPS synthase 1;PAPSS 1;Sulfurylase kinase 1;SK 1;ATPSK1; PAPSS

**Description:**PAPSS1 is a bifunctional enzyme with both ATP sulfurylase and APS kinase activity. In the N-terminal section, it belongs to the APS kinase family; while the C-terminal section belongs to the sulfate adenylyltransferase family. PAPSS1 can be inhibited by chlorate, and is expressed in many tissues, such as high endothelial venules (HEV) cells and in cartilage. PAPSS1 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. In mammals, PAPS is the sole source of sulfate; APS appears to be only an intermediate in the sulfate-activation pathway. PAPSS1 also involved in the biosynthesis of sulfated L-selectin ligands in endothelial cells.

**Form:**PBS

**Molecular Weight:**71.9 kDa

**Sequences:**Met 1-Ala624

**Purity:**> 95% by HPLC

**Concentration:**

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.