

Recombinant Full Length Human PAPSS1 Protein, His tagged

Cat. No. PAPSS1-12HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PAPSS1 Protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-624 aa
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	Liquid
Molecular Mass	71.9 kD

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	Greater than 95% as determined by reducing SDS-PAGE.
Application	This recombinant protein can be used for biological assays. For research use only.
Storage	Store at -20 centigrade, stable for 6 months after receipt. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl and 20% glycerol. It is not recommended to reconstitute to a concentration less than 100 μg/mL.

GENE INFORMATION

Gene Name	PAPSS1 3-phosphoadenosine 5-phosphosulfate synthase 1 [Homo sapiens (human)]
Official Symbol	PAPSS1
Synonyms	PAPSS1; 3-phosphoadenosine 5-phosphosulfate synthase 1; bifunctional 3-phosphoadenosine 5-phosphosulfate synthase 1; ATPSK1; PAPSS; SK 1; PAPSS 1; PAPS synthase 1; sulfurylase kinase 1; 3-prime-phosphoadenosine 5-prime-phosphosulfate synthase 1; SK1
Gene ID	9061
mRNA Refseq	NM_005443
Protein Refseq	NP_005434

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MIM	603262
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UniProt ID	O43252
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