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Datasheet for ABIN7318864 **PAPSS1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	PAPSS1
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAPSS1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PAPS Synthase 1/PAPSS1 Protein (His Tag)
Sequence:	Met 1-Ala624
Characteristics:	Recombinant Human Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1 is produced by our Mammalian expression system and the target gene encoding Met1-Ala624(O43252) is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	PAPSS1
Alternative Name:	PAPS Synthase 1/PAPSS1 (PAPSS1 Products)
Background:	Background: 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

Target Details

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.

Synonym: Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1,PAPS synthase 1,PAPSS 1,Sulfurylase kinase 1,SK 1,ATPSK1, PAPSS

Molecular Weight:	71.9 kDa
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UniProt:	O43252
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Pathways:	Glycosaminoglycan Metabolic Process , Ribonucleoside Biosynthetic Process
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM Tris,100 mM NaCl,20 % glycerol, pH 8.0.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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