

Product datasheet

Recombinant Human PAPSS1 protein ab123177

1 Image

Overview

<b>Product name</b>	Recombinant Human PAPSS1 protein
<b>Protein length</b>	Protein fragment

Description

<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

Amino Acid Sequence

<b>Accession</b>	<a href="#">O43252</a>
<b>Species</b>	Human
<b>Sequence</b>	<p>MGSSHHHHHH SSGLVPRGSH MGS HMRATNV          TYQAHHVSRN KRGQVVGTRG GFRGCTVWLT          GLSGAGKTTV SMALEEYLCV HGIPCYTLDG          DNIRQGLNKN LGFSPEDREE NVRRIA EVAK          LFADAGLVCI TSFISPYTQD RNNARQIHEG          ASLPFFEVFV DAPLHVCEQR DVKGLYKKAR          AGEIKGFTGI DSEYEKPEAP ELVLKTDSCD          VNDVQVQVVE LLQERDMPV DASYEVKELY          VPENKLHLAK TDAETLPALK INKVD MQWVQ          VLAEGWATPL NGFMREREYL QCLHFDCLLD          GGVINLSVPI VLTATHEDKE RLDGCTAFAL          MYEGRRVAIL RNPEFFEHRK EERCARQWGT          TCKNHPYIKM VMEQGDWLG GDLQVLDRVY          WNDGLDQYRL TPTELKQKFK DMNADAVFAF          QLRNPVHNGH ALLMQDTHKQ LLERGYRRPV          LLLHPLGGWT KDDDVPLMWR MKQHA AVLEE          GVLNPETTVV AIFSPMMYA GPTEVQWHCR          ARMVAGANFY IGRDPAGMP HPETGKDLYE          PSHGAKVLTM APGLITLEV PFRVAAYNKK          KKRMDYYDSE HHEDFEFISG TRMRKLAREG          QKPPEGFMAP KAWTVLTEYY KSLEKA</p>

<b>Molecular weight</b>	71 kDa including tags
<b>Amino acids</b>	24 to 624

Tags His tag N-Terminus

## Specifications

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Our [Abpromise guarantee](#) covers the use of **ab123177** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE
<b>Purity</b>	> 85 % SDS-PAGE. ab123177 is purified using conventional chromatography.
<b>Form</b>	Liquid
<b>Additional notes</b>	Additional E.C. Number: =2.7.7.4

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.  pH: 8.00 Constituents: 0.32% Tris HCl, 20% Glycerol, 0.58% Sodium chloride
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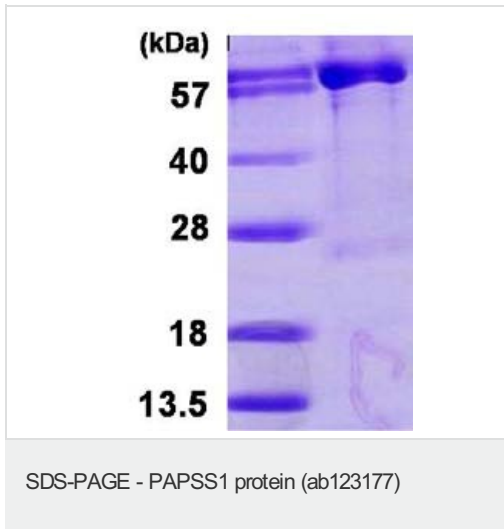
## General Info

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<b>Function</b>	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. Also involved in the biosynthesis of sulfated L-selectin ligands in endothelial cells.
<b>Tissue specificity</b>	Expressed in testis, pancreas, kidney, thymus, prostate, ovary, small intestine, colon, leukocytes and liver. Also expressed in high endothelial venules (HEV) cells and in cartilage.
<b>Pathway</b>	Sulfur metabolism; sulfate assimilation.
<b>Sequence similarities</b>	In the N-terminal section; belongs to the APS kinase family. In the C-terminal section; belongs to the sulfate adenylyltransferase family.

## Images

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15% SDS-PAGE analysis of ab123177 (3ug)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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