

Datasheet for ABIN7554911
PAPSS2 Protein (AA 1-614) (His tag)



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Overview

Quantity:	1 mg
Target:	PAPSS2
Protein Characteristics:	AA 1-614
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAPSS2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PAPSS2 Protein expressed in mammalian cells.
Sequence:	<p>MSGIKKQKTE NQQKSTNVVY QAHHVSRNKR GQVVGTRGGF RGCTVWLTGL SGAGKTTISF ALEEYLVSHA IPCYSLDGDN VRHGLNRNLG FSPGDREENI RRIAEVAKLF ADAGLVCITS FISPFKADRE NARKIHESAG LPFFEIVDA PLNICESRDV KGLYKRARAG EIKGFTGIDS DYEKPETPER VLKTNLSTVS DCVHQVWELL QEQNIVPYTI IKDIHELFPV ENKLDHVRAE AETLPSLSIT KLDLQWVQVL SEGWATPLKG FMREKEYLQV MHFDTLLDDG VINMSIPIVL PVSAEDKTRL EGCSKFVLAH GGRRVAILRD AEFYEHRKEE RCSRVTGTTK TKHPHIKMVM ESGDWLVGGD LQVLEKIRWN DGLDQYRLTP LELKQCKEM NADAVFAFQL RNPVHNGHAL LMQDTRRRLL ERGYKHPVLL LHPLGGWTKD DDVPLDWRMK QHA AVL EGV LDPKSTIVAI FPSPMLYAGP TEVQWHCRSR MIAGANFYIV GRDPAGMPHP ETKKDLYEPT HGGKVL SMAP GLTSVEIIPF RVAAYNKAKK AMDFYDPARH NEFD FISGTR MRKLAREGEN PPDGFMAPKA WKVLTDYYRS LEKN Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make</p>

Product Details

another tag necessary. In case you have a special request, please contact us.

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: PAPSS2

Alternative Name: PAPSS2 ([PAPSS2 Products](#))

Background: Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 2 (PAPS synthase 2) (PAPSS 2) (Sulfurylase kinase 2) (SK 2) (SK2) [Includes: Sulfate adenylyltransferase (EC 2.7.7.4) (ATP-sulfurylase) (Sulfate adenylate transferase) (SAT), Adenylyl-sulfate kinase (EC 2.7.1.25) (3'-phosphoadenosine-5'-phosphosulfate synthase) (APS kinase) (Adenosine-5'-phosphosulfate 3'-phosphotransferase) (Adenylylsulfate 3'-phosphotransferase)],FUNCTION: 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, the activated sulfate donor used by sulfotransferases (PubMed:19474428, PubMed:11773860, PubMed:23824674,

Target Details

PubMed:25594860). In mammals, PAPS is the sole source of sulfate while APS appears to only be an intermediate in the sulfate-activation pathway (PubMed:19474428, PubMed:11773860, PubMed:23824674, PubMed:25594860). Plays indirectly an important role in skeletogenesis during postnatal growth (PubMed:9771708). {ECO:0000269|PubMed:11773860, ECO:0000269|PubMed:19474428, ECO:0000269|PubMed:23824674, ECO:0000269|PubMed:25594860, ECO:0000269|PubMed:9771708}.

Molecular Weight: 69.5 kDa

UniProt: [O95340](#)

Pathways: [Glycosaminoglycan Metabolic Process](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months