Datasheet for ABIN7554868

PAPSS1 Protein (AA 1-624) (His tag)

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Overview

Quantity:	1 mg
Target:	PAPSS1
Protein Characteristics:	AA 1-624
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAPSS1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PAPSS1 Protein expressed in mammalien cells.
Sequence:	MEIPGSLCKK VKLSNNAQNW GMQRATNVTY QAHHVSRNKR GQVVGTRGGF RGCTVWLTGL SGAGKTTVSM ALEEYLVCHG IPCYTLDGDN IRQGLNKNLG FSPEDREENV RRIAEVAKLF ADAGLVCITS FISPYTQDRN NARQIHEGAS LPFFEVFVDA PLHVCEQRDV KGLYKKARAG EIKGFTGIDS EYEKPEAPEL VLKTDSCDVN DCVQQVVELL QERDIVPVDA SYEVKELYVP ENKLHLAKTD AETLPALKIN KVDMQWVQVL AEGWATPLNG FMREREYLQC LHFDCLLDGG VINLSVPIVL TATHEDKERL DGCTAFALMY EGRRVAILRN PEFFEHRKEE RCARQWGTTC KNHPYIKMVM EQGDWLIGGD LQVLDRVYWN DGLDQYRLTP TELKQKFKDM NADAVFAFQL RNPVHNGHAL LMQDTHKQLL ERGYRRPVLL LHPLGGWTKD DDVPLMWRMK QHAAVLEEGV LNPETTVVAI FPSPMMYAGP TEVQWHCRAR MVAGANFYIV GRDPAGMPHP ETGKDLYEPS HGAKVLTMAP GLITLEIVPF RVAAYNKKKK RMDYYDSEHH EDFEFISGTR MRKLAREGQK PPEGFMAPKA WTVLTEYYKS LEKA **Sequence without tag. The proposed Purification-Tag is**

Product Details

	based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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, Western Blot
Grade:	custom-made

Target Details

Target:	PAPSS1
Alternative Name:	PAPSS1 (PAPSS1 Products)
Background:	Bifunctional 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (PAPS synthase 1) (PAPSS 1) (Sulfurylase kinase 1) (SK 1) (SK1) [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: 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 (PubMed:9576487, PubMed:9668121,

Target Details

	PubMed:9648242, PubMed:14747722). Required for normal biosynthesis of sulfated L-selectin ligands in endothelial cells (PubMed:9576487). {ECO:0000269|PubMed:14747722, ECO:0000269|PubMed:9576487, ECO:0000269|PubMed:9648242, ECO:0000269|PubMed:9668121}.
Molecular Weight:	70.8 kDa
UniProt:	O43252
Pathways:	Glycosaminoglycan Metabolic Process, Ribonucleoside Biosynthetic Process

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. 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