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Datasheet for ABIN3132103 PAPSS2 Protein (AA 1-621) (His tag)





Overview

Quantity:	1 mg
Target:	PAPSS2
Protein Characteristics:	AA 1-621
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PAPSS2 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	FMAPKAWKVL TDYYRSLEKT N
	VLSMAPGLTS VEIIPFRVAA YNKIKKAMDF YDPARHEEFD FISGTRMRKL AREGEDPPDG
	STIVAIFPSP MLYAGPTEVQ WHCRCRMIAG ANFYIVGRDP AGMPHPETKK DLYEPTHGGK
	HNGHALLMQD TRRRLLERGY KHPVLLLHPL GGWTKDDDVP LEWRMKQHAA VLEERVLDPK
	HIKMVMESGD WLVGGDLQVL ERIRWDDGLD QYRLTPLELK QKCKDMNADA VFAFQLRNPV
	SIPIVLPVSA DDKARLEGCS KFALMYEGRR VALLQDPEFY EHRKEERCSR VWGTATAKHP
	EAETLPSLPI TKLDLQWVQI LSEGWATPLK GFMREKEYLQ TLHFDTLLDG VVPRDGVINM
	SDYEKPETPE CVLKTNLSSV SDCVQQVVEL LQEQNIVPHT TIKGIHELFV PENKVDQIRA
	SFISPFAKDR ENARKIHESA GLPFFEIFVD APLNICESRD VKGLYKRARA GEIKGFTGID
	FALEEYLVSH AIPCYSLDGD NVRHGLNKNL GFSAGDREEN IRRIAEVARL FADAGLVCIT
Sequence:	MSANFKMNHK RDQQKSTNVV YQAHHVSRNK RGQVVGTRGG FRGCTVWLTG LSGAGKTTIS

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Product Details

	special request, please contact us.
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Papss2 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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 will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
	Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

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Target Details

Target:	PAPSS2
Alternative Name:	Papss2 (PAPSS2 Products)
Background:	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. May have a important role in skeletogenesis during postnatal growth.
Molecular Weight:	71.3 kDa Including tag.
UniProt:	088428
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 gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value 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:	Unlimited (if stored properly)

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Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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