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## Datasheet for ABIN3094542 HSPG2 Protein (AA 4197-4391) (His tag)



Overview

Overview	
Quantity:	1 mg
Target:	HSPG2
Protein Characteristics:	AA 4197-4391
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HSPG2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
Product Details	
Sequence:	DAPGQYGAYF HDDGFLAFPG HVFSRSLPEV PETIELEVRT STASGLLLWQ GVEVGEAGQG
	KDFISLGLQD GHLVFRYQLG SGEARLVSED PINDGEWHRV TALREGRRGS IQVDGEELVS
	GRSPGPNVAV NAKGSVYIGG APDVATLTGG RFSSGITGCV KNLVLHSARP GAPPPQPLDL
	QHRAQAGANT RPCPS
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	<ul> <li>Made in Germany - from design to production - by highly experienced protein experts.</li> <li>Human HSPG2 Protein (raised in E. Coli) purified by multi-step, protein-specific process to</li> </ul>
	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.

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	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 bacterial culture:
	1. 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. 2. 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	HSPG2

Alternative Name:	HSPG2 (HSPG2 Products)
Background:	Integral component of basement membranes. Component of the glomerular basement
	membrane (GBM), responsible for the fixed negative electrostatic membrane charge, and which
	provides a barrier which is both size- and charge-selective. It serves as an attachment substrate

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	for cells. Plays essential roles in vascularization. Critical for normal heart development and for
	regulating the vascular response to injury. Also required for avascular cartilage development.,
	Endorepellin in an anti-angiogenic and anti-tumor peptide that inhibits endothelial cell migration,
	collagen-induced endothelial tube morphogenesis and blood vessel growth in the
	chorioallantoic membrane. Blocks endothelial cell adhesion to fibronectin and type I collagen.
	Anti-tumor agent in neovascularization. Interaction with its ligand, integrin alpha2/beta1, is
	required for the anti-angiogenic properties. Evokes a reduction in phosphorylation of receptor
	tyrosine kinases via alpha2/beta1 integrin-mediated activation of the tyrosine phosphatase,
	PTPN6., The LG3 peptide has anti-angiogenic properties that require binding of calcium ions for
	full activity.
Molecular Weight:	21.5 kDa Including tag.
UniProt:	P98160
Pathways:	Glycosaminoglycan Metabolic Process, Lipid Metabolism
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:	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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