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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: | Made in Germany - from design to production - by highly experienced protein experts. Human HSPG2 Protein (raised in E. Coli) 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. |

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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 |
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| | 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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