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HPSE Protein (AA 28-101) (His tag)



Image



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Quantity:	1 mg
Target:	HPSE
Protein Characteristics:	AA 28-101
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HPSE protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	DDVVDLEFYT KRPLRSVSPS FLSITIDASL ATDPRFLTFL GSPRLRALAR GLSPAYLRFG
	GTKTDFLIFD PDKE
	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. Mouse Hpse 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.
	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

LIDCE

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Target

Crystallography grade

Target Details

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Alternative Name:	Hpse (HPSE Products)
Background:	Endoglycosidase that cleaves heparan sulfate proteoglycans (HSPGs) into heparan sulfate side
	chains and core proteoglycans. Participates in extracellular matrix (ECM) degradation and
	remodeling. Selectively cleaves the linkage between a glucuronic acid unit and an N-sulfo
	glucosamine unit carrying either a 3-0-sulfo or a 6-0-sulfo group. Can also cleave the linkage
	between a glucuronic acid unit and an N-sulfo glucosamine unit carrying a 2-0-sulfo group, but

not linkages between a glucuronic acid unit and a 2-0-sulfated iduronic acid moiety. It is
essentially inactive at neutral pH but becomes active under acidic conditions such as during
tumor invasion and in inflammatory processes. Facilitates cell migration associated with
metastasis, wound healing and inflammation. Enhances shedding of syndecans, and increases
endothelial invasion and angiogenesis in myelomas. Acts as procoagulant by increasing the
generation of activation factor X in the presence of tissue factor and activation factor VII.
Increases cell adhesion to the extacellular matrix (ECM), independent of its enzymatic activity.
Induces AKT1/PKB phosphorylation via lipid rafts increasing cell mobility and invasion. Heparin
increases this AKT1/PKB activation. Regulates osteogenesis. Enhances angiogenesis through
up-regulation of SRC-mediated activation of VEGF. Implicated in hair follicle inner root sheath
differentiation and hair homeostasis. {ECO:0000269 PubMed:15677344,
ECO:0000269 PubMed:15793281, ECO:0000269 PubMed:17689495,
ECO:0000269 PubMed:18589009}.

Molecular Weight: 9.2 kDa Including tag.

UniProt: Q6YGZ1

Pathways: Glycosaminoglycan Metabolic 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.

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

Comment:

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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images

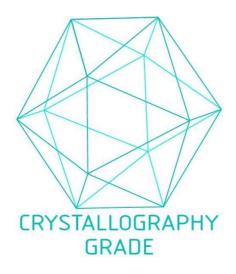


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process