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## Datasheet for ABIN3135856 HPSE Protein (AA 150-535) (His tag)

Image



Overview

Quantity:	1 mg
Target:	HPSE
Protein Characteristics:	AA 150-535
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:	KEFKNSTYSR SSVDMLYSFA KCSGLDLIFG LNALLRTPDL RWNSSNAQLL LDYCSSKGYN
	ISWELGNEPN SFWKKAHILI DGLQLGEDFV ELHKLLQRSA FQNAKLYGPD IGQPRGKTVK
	LLRSFLKAGG EVIDSLTWHH YYLNGRIATK EDFLSSDVLD TFILSVQKIL KVTKEITPGK
	KVWLGETSSA YGGGAPLLSN TFAAGFMWLD KLGLSAQMGI EVVMRQVFFG AGNYHLVDEN
	FEPLPDYWLS LLFKKLVGPR VLLSRVKGPD RSKLRVYLHC TNVYHPRYQE GDLTLYVLNL
	HNVTKHLKVP PPLFRKPVDT YLLKPSGPDG LLSKSVQLNG QILKMVDEQT LPALTEKPLP
	AGSALSLPAF SYGFFVIRNA KIAACI
	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>Mouse Hpse Protein (raised in E. Coli) purified by multi-step, protein-specific process to ensure crystallization grade.</li> </ul>

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	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
Endotoxin Level:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	HPSE
Alternative Name:	Hpse (HPSE Products)

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Target Details	
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:	44.2 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.
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

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## 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)

## Images



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

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