Heparanase (HPSE) Bovine Recombinant Protein

PRODUCT OVERVIEW

Product Name	Heparanase (HPSE), Recombinant Protein
Full Product Name	Recombinant Bovine Heparanase (HPSE)
Product Gene Name	HPSE recombinant protein
Product Synonym Gene Name	HPSE
Sequence	DDAAELEFFT ERPLHLVSPA FLSFTIDANL ATDPRFFTFL GSSKLRTLAR GLAPAYLRFG GNKGDFLIFD PKKE
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	61,077 Da
Sequence Positions	38-111, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9MYY0
Species	Bovine
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for HPSE recombinant protein	MBS1421026 is a recombinant protein targeting HPSE. Also known as Recombinant Bovine Heparanase (HPSE). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of HPSE recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HPSE. It may not necessarily be applicable to this product.

NCBI GI #	27806583
NCBI GeneID	281230
NCBI Accession #	NP_776507.1
UniProt Primary Accession #	Q9MYY0
UniProt Related Accession #	Q9MYY0
GenBank Nucleotide #	NM_174082.2
NCBI Official Full Name	heparanase

NCBI Official Synonym Full Names	heparanase
NCBI Official Symbol	HPSE
UniProt Protein Name	Heparanase
Protein Family	Heparanase
UniProt Gene Name	HPSE
NCBI Protein Information	heparanase
UniProt Comments for HPSE	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-O-sulfo or a 6-O-sulfo group. Can also cleave the linkage between a glucuronic acid unit and an N-sulfo glucosamine unit carrying a 2-O-sulfo group, but not linkages between a glucuronic acid unit and a 2-O-sulfated iduronic acid moiety. 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. Acts as procoagulant by enhancing the generation of activated factor X/F10 in the presence of tissue factor/TF and activated factor VII/F7. Independent of its enzymatic activity, increases cell adhesion to the extracellular matrix (ECM). Enhances AKT1/PKB phosphorylation, possibly via interaction with a lipid raft-resident receptor. Plays a role in the regulation of osteogenesis. Enhances angiogenesis through up-regulation of SRC-mediated activation of VEGF. Implicated in hair follicle inner root sheath differentiation and hair homeostasis ().
Research Articles on HPSE	**1.** Suggest that high glucose is a potent stimulator of endothelial heparanase secretion.
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