

## Recombinant Human heparanase, His-tagged

Cat. No. HPSE-467H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	HPSE, 36-543aa Human, His tag, E.coli
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	36-543 a.a.
<b>Description</b>	Heparan sulfate proteoglycans are major components of the basement membrane and extracellular matrix. HPSE is an enzyme that cleaves heparan sulfate proteoglycans to permit cell movement through remodeling of the extracellular matrix. In addition, this cleavage can release bioactive molecules from the extracellular matrix. Recombinant human HPSE protein, fused to His-tag at N-terminus, was expressed in E.coli .
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
<b>Molecular Mass</b>	60.0 kDa (531aa)
<b>AA Sequence</b>	MGSSHHHHHH SGLVPRGSH MGSQDVVDLD FFTQEPLHLV SPSFLSVTID ANLATDPRFL ILLGSPKLRT LARGLSPAYL RFGGKTDFL IFDPKKESTF EERSYWQSQV NQDICKYGS I PPDVEEKLRL EWPYQEQLL REHYQKKFKN STYSRSSVDV LYTFANCSGL DLIFGLNALL RTADLQWNSS NAQLLLDYCS SKGYNISWEL GNEPNSFLKK ADIFINGSQL GEDFIQLHLK LRKSTFKNAK LYGPDVGQPR RKTAKMLKSF LKAGGEVIDS VTWHHYLNG RTATKEDFLN

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PDVLDIFISS VQKVFQVVES TRPGKKVWLG ETSSAYGGGA PLLSDTFAAG  
 FMWLDKLGSL ARMGIEVVMR QVFFGAGNYH LVDENFDPLP DYWLSLLFKK  
 LVGTKVLMAS VQGSKRRKLR VYLHCTNTDN PRYKEGDLTL YAINLHNVTK  
 YLRLPYPFNS KQVDKYLLRP LGPHGLLSKS VQLNGLTLKM VDDQTLPLM  
 EKPLRPGSSL GLPAFSYSFF VIRNAKVAAC I

**Purity** >85 % by SDS - PAGE

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 1.0 mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** HPSE heparanase [ Homo sapiens ]

**Official Symbol** HPSE

**Synonyms** HPSE; heparanase; HPA; HPSE1; HSE1; heparanase-1; endo-glucuronidase; HPA1; HPR1;

**Gene ID** [10855](#)

**mRNA Refseq** [NM\\_006665](#)

**Protein Refseq** [NP\\_006656](#)

**MIM** [604724](#)

**UniProt ID** [Q9Y251](#)

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<b>Chromosome Location</b>	4q21.3
<b>Pathway</b>	Glycosaminoglycan degradation, organism-specific biosystem; Glycosaminoglycan degradation, conserved biosystem; Heparan sulfate degradation, organism-specific biosystem; Heparan sulfate degradation, conserved biosystem; Metabolic pathways, organism-specific biosystem; Syndecan-1-mediated signaling events, organism-specific biosystem;
<b>Function</b>	beta-glucuronidase activity; cation binding; hydrolase activity, acting on glycosyl bonds; protein binding; protein dimerization activity; syndecan binding;

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