

Recombinant Human heparanase, His-tagged

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

SPECIFICATION

Product Overview	HPSE, 36-543aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	36-543 a.a.
Description	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 .
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	60.0 kDa (531aa)
AA Sequence	MGSSHHHHHH SGLVPRGSH MGSQDVVDLD FFTQEPLHLV SPSFLSVTID ANLATDPRFL ILLGSPKLRT LARGLSPAYL RFGGTKTDFL IFDPKKESTF EERSYWQSQV NQDICKYGSI PPDVEEKLRL EWPYQEQLLL REHYQKKFKN STYSRSSVDV LYTFANCSGL DLIFGLNALL RTADLQWNSS NAQLLLDYCS SKGYNISWEL GNEPNSFLKK ADIFINGSQL GEDFIQLHLK LRKSTFKNAK LYGPDVGQPR RKTAKMLKSF LKAGGEVIDS VTWHHYLNG RTATKEDFLN

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PDVLDIFISS VQKVFQVVES TRPGKKVWLG ETSSAYGGGA PLLSDTFAAG
 FMWLDKLGLS ARMGIEVVMR QVFFGAGNYH LVDENFDPLP DYWLSLLFKK
 LVGTKVLMAS VQGSKRRKLR VYLHCTNTDN PRYKEGDLTL YAINLHNVTK
 YLRLPYPSFN 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-glucoronidase; HPA1; HPR1;

Gene ID 10855

mRNA Refseq NM_006665

Protein Refseq NP_006656

MIM 604724

UniProt ID Q9Y251

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Chromosome Location	4q21.3
Pathway	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;
Function	beta-glucuronidase activity; cation binding; hydrolase activity, acting on glycosyl bonds; protein binding; protein dimerization activity; syndecan binding;

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA