

Recombinant Human HPSE, His-tagged

Cat. No. HPSE-5068H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human HPSE protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
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.
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 SSGLVPRGSH MGSQDVVDLD FFTQEPLHLV SPSFLSVTID ANLATDPRFL ILLGSPKLR LARGLSPAYL RFGGKTDFL IFDPKKESTF EERSYWQSQV NQDICKYGSI PPDVEEKLR L EWPYQEQLL REHYQKKFKN STYSRSSVDV LYTFANCSGL DLIFGLNALL RTADLQWNSS NAQLLLDYCS SKGYNISWEL GNPN SFLKK ADIFINGSQL GEDFIQLHKL LRKSTFKNAK LYGPDVGQPR RKTAKMLKSF LKAGGEVIDS VTWHHYLNG RTATKEDFLN PDVLDIFISS VQKVFQVVES TRPGKKVWL G ETSSAYGGGA PLLSDTFAAG FMWLDKLG LS ARMGIEVVMR QVFFGAGNYH LVDENFDPLP DYWLSLLFKK

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LVGTKVLMAS VQGSKRRKLR VYLHCTNTDN PRYKEGDLTL YAINLHNVTK
 YLRLPYPFSN KQVDKYLLRP LGPHGLLSKS VQLNGLTLKM VDDQTLPLM
 EKPLRPGSSL GLPAFSYSFF VIRNAKVAAC I

Purity >85 % by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at +4centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20centigrade or -70centigrade. 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](#)

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UniProt ID	Q9Y251
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;

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