

**AR51384PU-N****Human Heparanase / HPSE (36-543, His-tag) - Purified**

<b>Alternate names:</b>	Endo-Glucuronidase, HEP, HPA, HPA1, HPR1, HPSE1, HSE1, Heparanase-1
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml (determined by Bradford assay)
<b>Background:</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.
<b>Uniprot ID:</b>	<a href="#">Q9Y251</a>
<b>NCBI:</b>	<a href="#">NP_006656</a>
<b>GeneID:</b>	<a href="#">10855</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >85% pure by SDS-PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
<b>Description:</b>	Recombinant Human HPSE protein, fused to <i>His-tag</i> at N-terminus, was expressed in <i>E.coli</i> . <b>AA Sequence:</b> <u>MGSSHHHHHH</u> <u>SSGLVPRGSH</u> <u>MGSQDVVDLD</u> <u>FFTQEPLHLV</u> <u>SPSFLSVTID</u> <u>ANLATDPRFL</u> <u>ILLGSPKLRT</u> <u>LARGLSPAYL</u> <u>RFGGTKTDFL</u> <u>IFDPKKESTF</u> <u>EERSYWQSQV</u> <u>NQDICKYGSI</u> <u>PPDVEEKLRL</u> <u>EWPYQEQLL</u> <u>REHYQKFKN</u> <u>STYSRSSVDV</u> <u>LYTFANCSQL</u> <u>DLIFGLNALL</u> <u>RTADLQWNSS</u> <u>NAQLLLDYCS</u> <u>SKGYNISWEL</u> <u>GNEPNSFLKK</u> <u>ADIFINGSQL</u> <u>GEDFIQLHKL</u> <u>LRKSTFKNAK</u> <u>LYGPDVGQPR</u> <u>RKTAKMLKSF</u> <u>LKAGGEVIDS</u> <u>VTWHHYLNG</u> <u>RTATKEDFLN</u> <u>PDVLDIFISS</u> <u>VQKVFQVVS</u> <u>TRPGKKVWLG</u> <u>ETSSAYGGGA</u> <u>PLLSDTFAAG</u> <u>FMWLDKLGSL</u> <u>ARMGIEVVMR</u> <u>QVFFGAGNYH</u> <u>LVDENFDPLP</u> <u>DYWLSLLFKK</u> <u>LVGTKVLMAS</u> <u>VQGSKRRKLR</u> <u>VYLHCTNTDN</u> <u>PRYKEGDLTL</u> <u>YAINLHNVTK</u> <u>YLRLPYPSN</u> <u>KQVDKYLLRP</u> <u>LGPHGLLSKS</u> <u>VQLNGLTLKM</u> <u>VDDQTLPLPM</u> <u>EKPLRPGSSL</u> <u>GLPAFSYSFF</u> <u>VIRNAKVAAC</u> <u>I</u> <b>Molecular weight:</b> 60.0 kDa (531 aa)
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	1. Okada Y, Yamada S, Toyoshima M, Dong J, Nakajima M, Sugahara K. Structural recognition by recombinant human heparanase that plays critical roles in tumor metastasis. Hierarchical sulfate groups with different effects and the essential target disulfated trisaccharide sequence. J Biol Chem. 2002 Nov 8;277(45):42488-95. Epub 2002 Sep 3. PubMed PMID: 12213822.

Pictures:

