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**Product Data Sheet**


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Product Name: HPSE Human  
 Cat. No.: GP21800  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Heparanase; HPA; HSE1; HPA1; HPR1; HPSE1; heparanase-1; EC 3.2.1.166; Endo-glucuronidase; HEP; Heparanase-1; Hpa1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSQDVVDLD FFTQEPLHLV SPSFLSVTID ANLATDPRFL ILLGSPKLRT LARGLSPAYL RFGGKTDFL IFDPKKESTF EERSYWQSQV NQDICKYGSI PPDVEEKLRL EWPYQEQLL REHYQKKFKN STYSRSSVDV LYTFANCSGL DLIFGLNALL RTADLQWNSS NAQLLDYCS SKGYNISWEL GNEPNSFLKK ADIFINGSQL GEDFIQLHKL LRKSTFKNAK LYGPDVGQPR RKTAKMLKSF LKAGGEVIDS VTWHHYLNG RTATKEDFLN PDVLDIFISS VQKVFQVVE TRPGKKVWLG ETSSAYGGGA PLLSDTFAAG FMWLDKLGSL ARMGIEVVMR QVFFGAGNYH LVDENFDPLP DYWLSLLFKK LVGTKVLMAS VQGSKRRKLR VYLHCTNTDN PRYKEGDLTL YAINLHNVTK YLRLPYPSFN KQVDKYLLRP LGPHGLLSKS VQLNGLTLKM VDDQTLPLM EKPLRPGSSL GLPAFSYSFF VIRNAKVAAC I.		
Formulation	HPSE protein solution (1mg/ml) containing 20mM Tris-HCl (pH 8.0), 10% glycerol and 0.4M Urea.		

**Introduction**

HPSE also known as Heparanase-1 is an enzyme which cleaves heparan sulfate proteoglycans to allow cell movement through changing the extracellular matrix. In fact, the Heparan sulfate proteoglycans are major components of the basement membrane and extracellular matrix. In addition, this cleavage can release bioactive molecules from the extracellular matrix. HPSE is significant for the overall degradation of proteins in lysosomes.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

HPSE Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 531 amino acids (36-543 a.a) and having a molecular mass of 60kDa. HPSE is fused to a 23 amino acid His-tag at N-terminus.

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