

## Recombinant Human HPSE Protein, His-tagged

**Cat. No.** HPSE-2252H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human HPSE Protein (Leu151-Ile543) with a N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | Leu151-Ile543                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Heparan sulfate proteoglycans are major components of the basement membrane and extracellular matrix. The protein encoded by this gene 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. Several transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 48.0 kDa<br>Accurate Molecular Mass: 48 kDa                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Endotoxin</b>        | <1.0 EU per 1g (determined by the LAL method).                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | 100mM NaHCO <sub>3</sub> , 500mM NaCl, pH8.3, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in ddH <sub>2</sub> O to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                   |
|------------------------|-----------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HPSE heparanase [ Homo sapiens (human) ]                                          |
| <b>Official Symbol</b> | HPSE                                                                              |
| <b>Synonyms</b>        | HPSE; heparanase; HPA; HPSE1; HSE1; heparanase-1; endo-glucuronidase; HPA1; HPR1; |
| <b>Gene ID</b>         | 10855                                                                             |
| <b>mRNA Refseq</b>     | NM_006665                                                                         |
| <b>Protein Refseq</b>  | NP_006656                                                                         |
| <b>MIM</b>             | 604724                                                                            |

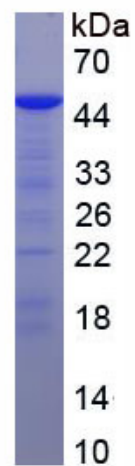
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UniProt ID

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