

Active Recombinant Human HPSE protein, His-tagged

Cat. No. HPSE-431H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HPSE(Gln36-Ile543), fused with His tag at N-terminal was expressed in CHO. The linker peptide from Ser110-Gln157 is removed by protease treatment.
Species	Human
Source	CHO
ProteinLength	36-543;110-157 a.a.
Predicted N Terminal	His & K158
Form	Supplied as a 0.2 µm filtered solution in Tris, NaCl and E64.
Bio-activity	Measured by its ability to release heparan sulfate from Recombinant Human Syndecan-4. <60 ng of Recombinant Human Active Heparanase/HPSE is required for the release of 50% of heparan sulfate from 2 µg of Recombinant Human Syndecan-4, as measured under the described conditions.
Molecular Mass	Predicted Molecular Mass: 43 & 9 kDa;SDS-PAGE: 50-60 kDa & 7-9 kDa, reducing conditions.
Endotoxin	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal

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Coomassie® Blue stain at 5 µg per lane.

Storage

Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.

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
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,

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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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