

Recombinant Human Heparanase

Cat. No. HPSE-213H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Heparanase-1 is produced as a latent 65 kDa precursor and proteolytically processed to its active form in <i>CHO cell</i> .
Species	Human
Source	CHO
Description	Heparanase is an endo β-D-glucuronidase, which degrades heparan sulfate side chains of heparan sulfate proteoglycans (HSPGs) in the extracellular matrix. Heparanase plays an important role in ECM degradation, facilitating the migration and extravasation of tumor cells and inflammatory leukocytes. Upon degradation, heparanase releases growth factors and cytokines that stimulate cell proliferation and chemotaxis. Heparanase is a heterodimer comprised of a 50 kDa subunit harboring the active site and a 8 kDa subunit. Heparanase is highly expressed in myeloid leukocytes (i.e. neutrophils) in platelets and in human placenta. Human heparanase was found to be upregulated in various types of primary tumors, correlating in some cases with increased tumor invasiveness and vascularity and with poor chance of survival.
Concentration	1g /ml.
Buffer	LDS-PAGE buffer
Application	Positive control for western blot analysis.

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Storage Store at –20 °C, avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name HPSE heparanase [Homo sapiens]

Synonyms HPSE; heparanase; HPA; HPA1; HPR1; HPSE1; HSE1; heparanase-1; heparanase exon10-deletion; heparanase exon 9&10 deletion; EC=3.2.-.-; Heparanase 8 kDa subunit; Heparanase 50 kDa subunit

Gene ID 10855

mRNA Refseq NM_001098540

Protein Refseq NP_001092010

MIM 604724

UniProt ID Q9Y251

Chromosome Location 4q21.3

Pathway Glycosaminoglycan degradation; Metabolic pathways

Function beta-glucuronidase activity; calcium ion binding; hydrolase activity, acting on glycosyl bonds; magnesium ion binding

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