

Active Recombinant Mouse HPSE Protein, His-tagged

Cat. No. HPSE-7838M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse HPSE (28-535) protein with a N-terminal 6/His-tag was expressed in myeloma cells.
Species	Mouse
Source	Myeloma
ProteinLength	28-535
Description	This gene encodes an endoglucuronidase enzyme that plays an important role in tumor invasion and metastasis. The encoded preproprotein undergoes proteolytic processing to generate an active heterodimeric enzyme that cleaves the heparan sulfate proteoglycans associated with the cell surface and extracellular matrix. Mice lacking the encoded protein do not show any prominent pathological alterations under normal conditions but fail to develop albuminuria and renal damage in response to drug-induced diabetes.
Bio-activity	Measured by its ability to release biotinylated heparan sulfate from Recombinant Human Syndecan-4. 20 ng rmHPSE digestion will result in >50% of OD reduction compared with the Negative Control
Molecular Mass	43 kDa (50 kDa subunit) and 9 kDa (8 kDa subunit)
N-terminal Sequence Analysis	Glu146 and Lys150

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Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	> 95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining
Applications	ELISA
Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles
Storage	6 months from date of receipt, -20 to -70 centigrade as supplied. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 µm filtered solution in Tris, NaCl and E64. See Certificate of Analysis for details
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

GENE INFORMATION

Gene Name	Hpse heparanase [Mus musculus (house mouse)]
Official Symbol	HPSE
Synonyms	HPSE; heparanase; H; Hpa; HSE1; Hpr1; heparanase; endo-glucuronidase; endoglycosidase heparanase
Gene ID	15442
mRNA Refseq	NM_152803

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Protein Refseq	NP_690016
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UniProt ID	Q6YGZ1
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