

Recombinant Mouse Heparanase/HPA protein (His tag)



Catalog Number:PDMM100030

Note: Centrifuge before opening to ensure complete recovery of vial contents.

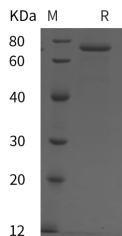
Description

Synonyms	Heparanase;EC 3.2.1.166;Endo-glucuronidase;Hpse;Hpa
Species	Mouse
Expression Host	HEK293 Cells
Sequence	Met1-Ile535
Accession	Q6YGZ1
Calculated Molecular Weight	58.7 kDa
Observed molecular weight	70 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Heparanase (HPSE) selectively cleaves heparan sulfate (HS) at specific sites on HS proteoglycans (HSPGs). The enzyme is synthesized as an inactive 65 kDa proenzyme that is secreted via the Golgi apparatus and associates with the cell membrane through interaction with HSPGs. It is then endocytosed and transferred to lysosomes where cathepsin L activates it by removing an internal inhibitory peptide, forming a heterodimer composed of an 8 kDa and a 50 kDa subunit. Under certain stimuli, the active enzyme is transferred back to the cell surface, where it participates in extracellular matrix degradation and remodeling. HPSE facilitates cell migration associated with metastasis, wound healing and inflammation. An increase in its activity is associated with an increase in VEGF activity, which further enhances angiogenesis. HPSE also enhances shedding of syndecans and increases endothelial invasion and angiogenesis in

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myelomas. It acts as a procoagulant by increasing the generation of activation factor X in the presence of tissue factor and activation factor VII. In addition, it increases cell adhesion to the extracellular matrix (ECM), independent of its enzymatic activity. HPSE is highly expressed in placenta and spleen and weakly expressed in lymph node, thymus, peripheral blood leukocytes, bone marrow, endothelial cells, fetal liver and tumor tissues. Mouse HPSE shows 76% identity to human HPSE at amino acid sequence. The enzyme activity of recombinant mouse HPSE was assayed using recombinant syndecan 4 that was biotinylated at the non-reducing end of its HS chains in ELISA format.

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