Creative Enzymes®

heparanase

Cat. No. EXWM-3848

Lot. No. (See product label)

Introduction

Description	Heparanase cleaves the linkage between a glucuronic acid unit and an N-sulfo glucosamine unit carrying either a 3-O-sulfo or a 6-O-sulfo group. Heparanase-1 cuts macromolecular heparin into fragments of 5000–20000 Da. The enzyme cleaves the heparan sulfate glycosaminoglycans from proteoglycan core proteins and degrades them to small oligosaccharides. Inside cells, the enzyme is important for the normal catabolism of heparan sulfate proteoglycans, generating glycosaminoglycan fragments that are then transported to lysosomes and completely degraded. When secreted, heparanase degrades basement membrane heparan sulfate glycosaminoglycans at sites of injury or inflammation, allowing extravasion of immune cells into nonvascular spaces and releasing factors that regulate cell proliferation and angiogenesis.
Synonyms	Hpa1 heparanase; Hpa1; heparanase 1; heparanase-1; C1A heparanase; HPSE

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 3.2.1.166
Reaction	endohydrolysis of (1→4)-β-D-glycosidic bonds of heparan sulfate chains in heparan sulfate proteoglycan
Notes	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.