Creative Enzymes®

Heparinase I from Flavobacterium heparinum, Recombinant

Cat. No. NATE-1946

Lot. No. (See product label)

Introduction

Description	Heparin-degrading lyase that recognizes heparin sulfate proteoglycan as its primary substrate. Heparinase I and III plays vital role in various biological processes: modulate cell-growth factor interactions, cell-lipoprotein interactions, neovascularization. It cleaves highly sulphated polysaccharide chains in presence of 2-O-sulfated α-L-idopyranosyluronic acid and β-D-glucopyranosyluronic acid residues of polysaccharides.
Synonyms	Heparinase; Heparin lyase; Heparin eliminase; Heparin-sulfate lyase; Heparin-sulfate eliminase; Heparitin-sulfate lyase; Heparinase I

Product Information

Species	Flavobacterium heparinum
Source	E.coli
Form	Powder
EC Number	EC 4.2.2.7
CAS No.	9025-39-2
Activity	~ 100IU/mg
Specificity	Heparin; heparan sulfate (specific activity with heparin is approx. 3 times higher than with heparan sulfate).
Unit Definition	One international unit (IU) of recombinant heparinase I is defined as the amount of enzyme that will liberate 1.0 μmole unsaturated oligosaccharides from porcine mucosal heparin per minute at 35 °C and pH 7.0.

Storage and Shipping Information

Stability	Expiration of heparinase I is 12 months from manufacturing date, frozen at -96 to -20 °C in PBS.