

## Heparinase III from *Bacteroides eggerthii*, Recombinant

Cat. No. NATE-1267

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  $\alpha$ -L-idopyranosyluronic acid and  $\beta$ -D-glucopyranosyluronic acid residues of polysaccharides.

**Synonyms** Heparinase; Heparin lyase; Heparin eliminase; Heparin-sulfate lyase; Heparin-sulfate eliminase; Heparitin-sulfate lyase; Heparinase I; Heparinase III; Heparin lyase II; Heparinase II

### Product Information

**Species** *Bacteroides eggerthii*

**Source** *E. coli*

**Form** 100 mM NaCl, 20 mM Tris-HCl (pH 7.5 25°C), 1 mM Na<sub>2</sub>EDTA and 5 mM CaCl<sub>2</sub>.

**CAS No.** 37290-86-1

**Molecular Weight** 75 kDa

**Purity** > 95% determined by SDS-PAGE

**Concentration** 700 units/ml

**Unit Definition** One unit is defined as the amount of enzyme that will liberate 1.0  $\mu$ mol unsaturated oligosaccharides from heparan sulfate per minute at 30°C and pH 7.0 in a total reaction volume of 100  $\mu$ l.

### Storage and Shipping Information

**Storage** at -80°C. Avoid repeated freeze/thaw cycles.