

Chondroitinase B from *Flavobacterium heparinum*, Recombinant

Cat. No. NATE-0130

Lot. No. (See product label)

Introduction

Description In enzymology, a chondroitin B lyase (EC 4.2.2.19) is an enzyme that catalyzes the chemical reaction: Elimination cleavage of dermatan sulfate containing 1,4-beta-D-hexosaminyI and 1,3-beta-D-glucurosonyl or 1,3-alpha-L-iduronosyl linkages to disaccharides containing 4-deoxy-beta-D-gluc-4-enuronosyl groups to yield a 4,5-unsaturated dermatan-sulfate disaccharide (deltaUA-GalNAc-4S). This enzyme belongs to the family of lyases, specifically those carbon-oxygen lyases acting on polysaccharides.

Applications As research reagent (glycosaminoglycan degradation). For the preparation of di- and oligo-saccharides of dermatan sulfate.

Synonyms Chondroitinase B; EC 4.2.2.19; chondroitin B lyase; ChonB; ChnB

Product Information

Species *Flavobacterium heparinum*

Source *Flavobacterium heparinum*

EC Number EC 4.2.2.19

CAS No. 52227-83-5

Molecular Weight 54,779 Da

Purity > 90 % by reversed phase HPLC analysis.

Activity > 550 IU/mg (substrate: dermatan sulfate)

Isoelectric point 9.4 - 9.6

Optimum pH pH optimum for activity: 7-8; pH range for activity: 5-10

Optimum temperature 20°C - 37°C

Specificity Dermatan sulfate (chondroitin sulfate B).

Unit Definition One international unit (IU) is defined as the amount of enzyme that will liberate 1.0 μmole unsaturated oligosaccharides from dermatan sulfate per minute at 30°C and pH 8.0.

Usage and Packaging

Package vial of 5 μg

Storage and Shipping Information

Stability Expiration is 30 months from manufacturing date, frozen at -70°C in aqueous buffers containing Sodium

Stability

Expiration is 36 months from manufacturing date, frozen at -70 °C in aqueous buffers containing Sodium Chloride, Sodium Phosphate and Sucrose 5%.