

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:Eliminative cleavage of dermatan sulfate containing 1,4-beta-D-hexosaminyl 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; Chon	B; 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)
lsoelectric 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 μ mole 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

Stahilitv

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



Chloride, Sodium Phosphate and Sucrose 5%.