

## chondroitin B lyase

Cat. No. EXWM-5094

Lot. No. (See product label)

### Introduction

**Description** This is the only lyase that is known to be specific for dermatan sulfate as substrate. The minimum substrate length required for catalysis is a tetrasaccharide. In general, chondroitin sulfate (CS) and dermatan sulfate (DS) chains comprise a linkage region, a chain cap and a repeat region. The repeat region of CS is a repeating disaccharide of glucuronic acid (GlcA) and N-acetylgalactosamine (GalNAc) [-4)GlcA(β1-3)GalNAc(β1-]n, which may be O-sulfated on the C-4 and/or C-6 of GalNAc and C-2 of GlcA. GlcA residues of CS may be epimerized to iduronic acid (IdoA) forming the repeating disaccharide [-4)IdoA(α1-3)GalNAc(β1-]n of DS. Both the concentrations and locations of sulfate-ester substituents vary with glucosaminoglycansource.

**Synonyms** chondroitinase B; ChonB; ChnB

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 4.2.2.19

**CAS No.** 52227-83-5

**Reaction** Eliminative cleavage of dermatan sulfate containing (1→4)-β-D-hexosaminyll and (1→3)-β-D-glucurosonyll or (1→3)-α-L-iduronosyll linkages to disaccharides containing 4-deoxy-β-D-gluc-4-enuronosyll groups to yield a 4,5-unsaturated dermatan-sulfate disaccharide (ΔUA-GalNAc-4S).

**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 °C for short term. For long term storage, store it at -20 °C~-80 °C.