Creative Enzymes®

Chondroitinase ABC from Proteus vulgaris, Recombinant

Cat. No. NATE-1949

Lot. No. (See product label)

Introduction

Description	Chondroitinase ABC cleaves, via an elimination mechanism, sulfated and non-sulfated polysaccharide chains containing 1-4 linkages between hexosamines and glucuronic acid residues. The reaction yields oligosaccharide products (mainly disaccharides) containing unsaturated uronic acids which can be detected by UV spectroscopy at 232 nm. The enzyme is active on chondroitin sulfates A and C, chondroitin sulfates B (dermatan sulfate), chondroitin and hyaluronic acid.
Applications	Determination of contents of chondroitin sulfates by HPLC Processing animal tissues before further investigations Preparation of chondroitin and hyaluronic acid derived unsaturated disaccharides Preparation of hyaluronic acid derived unsaturated disaccharide
Synonyms	EC 4.2.2.4, chondroitinase; chondroitin ABC eliminase; chondroitinase ABC; chondroitin ABC lyase; chondroitin sulfate ABC lyase; ChS ABC lyase; chondroitin sulfate ABC endoeliminase; chondroitin sulfate ABC endolyase; ChS ABC lyase I; 9024-13-9

Product Information

Species	Proteus vulgaris
Source	E.coli
EC Number	EC 4.2.2.20
CAS No.	9024-13-9
Molecular Weight	117.3 kDa
Activity	> 100 IU/mg (substrate: chondroitin sulfate A).
Optimum pH	8
Optimum temperature	37 °C
Specificity	Chondroitin sulfates A and C, chondroitin sulfates B (dermatan sulfate), chondroitin and hyaluronic acid.
Unit Definition	One international unit (IU) of chondroitinase ABC is defined as the amount of enzyme that will liberate 1.0 μmole unsaturated oligosaccharides from chondroitin sulfates A per minute at 30 °C and pH 8.0.

Storage and Shipping Information

Stability	Expiration is at least 12 months from manufacturing date, kept at -20 °C.