Creative Enzymes®

Native Flavobacterium heparinum Chondroitinase AC

Cat. No. NATE-0126

Lot. No. (See product label)

Introduction

Description	Chondroitinase AC from Flavobacterium heparinum is an enzyme that cleaves sulfated and non-sulfated polysaccharide chains with (1-4) linkages between hexosamines and glucuronic acid residues, by an elimination mechanism. The resulting oligosaccharide products are mainly disaccharides with unsatuRated uronic acids. Chondroitinase AC specifically degrades chondroitin sulfates A and C, but not chondroitin sulfate B (dermatan sulfate).
Applications	Chondroitinase AC from Creative Enzymes has been used for the large scale preparation of glycosaminoglycan (GAG) fractions during the study of structural and sequence motifs in dermatan sulfate.
Synonyms	EC 4.2.2.5; 9047-57-8; chondroitin AC lyase; chondroitinase; chondroitin sulfate lyase; chondroitin AC eliminase; chondroitin AC lyase; chondroitinase AC; ChnAC

Product Information

Source	Flavobacterium heparinum
Form	lyophilized powder.
EC Number	EC 4.2.2.5
CAS No.	9047-57-8
Activity	0.5-1.5 units/mg solid (using chondroitin sulfate A as substrate, also cleaves chondroitin sulfate C)
Buffer	0.02 M phosphate buffer: soluble (pH 7.0)
Unit Definition	One unit will cause a ΔA232 of 1.0 per minute due to the release of unsaturated disaccharide from chondroitin sulfate A at pH 7.3 at 37°C. Reaction volume: 3.1 ml (light path 1 cm).

Storage and Shipping Information

Storage	−20°C