

## Chondroitin synthase from *Pasteurella multocida*, Recombinant

Cat. No. NATE-1486

Lot. No. (See product label)

### Introduction

#### Description

In enzymology, a N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase (EC 2.4.1.226) is an enzyme that catalyzes the chemical reaction: UDP-alpha-D-glucuronate + N-acetyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl- proteoglycan → UDP + beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-(1->4)- beta-D-glucuronosyl-proteoglycan. The 3 substrates of this enzyme are UDP-alpha-D-glucuronate, [[N-acetyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl-]], and proteoglycan, whereas its 3 products are UDP, [[beta-D-glucuronosyl-(1->3)-N-acetyl-beta-D-galactosaminyl-(1->4)-]], and beta-D-glucuronosyl-proteoglycan.

#### Synonyms

alpha-D-glucuronate:N-acetyl-beta-D-galactosaminyl-(1->4)-beta-D-glucuronosyl-proteoglycan 3-beta-glucuronosyltransferase; chondroitin glucuronyltransferase II; N-acetylgalactosaminyl-proteoglycan 3-beta-glucuronosyltransferase; EC 2.4.1.226

### Product Information

#### Species

*Pasteurella multocida*

#### Source

*E. coli*

#### EC Number

EC 2.4.1.226

#### CAS No.

269077-98-7

#### Purity

min 95% by SDS-PAGE

#### Unit Definition

PmCS polymerizes Chondroitin chain from UDP-GalNAc and UDP-GlcA sugar nucleotide donors.