Creative Enzymes®

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-glu curonosyl-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.