Creative Enzymes®

glucuronosyl-N-acetylgalactosaminyl-proteoglycan 4-β-N-acetylgalactosaminyltransferase

Cat. No. EXWM-2400

Lot. No. (See product label)

Introduction

Description	Involved in the biosynthesis of chondroitin sulfate. The human form of this enzyme is a bifunctional glycosyltransferase, which also has the 3-β-glucuronosyltransferase (EC 2.4.1.226, N-acetylgalactosaminyl-proteoglycan 3-β-glucuronosyltransferase) activity required for the synthesis of the chondroitin sulfate disaccharide repeats. Similar chondroitin synthase 'co-polymerases' can be found in Pasteurella multocida and Escherichia coli.
Synonyms	N-acetylgalactosaminyltransferase II; UDP-N-acetyl-D-galactosamine:D-glucuronyl-N-acetyl-1,3-β-D-galactosaminylproteoglycan β-1,4-N-acetylgalactosaminyltransferase; chondroitin synthase; glucuronyl-N-acetylgalactosaminylproteoglycan β-1,4-N-acetylgalactosaminyltransferase; uridine diphosphoacetylgalactosamine-chondroitin acetylgalactosaminyltransferase II; UDP-N-acetyl-D-galactosamine:β-D-glucuronosyl-(1→3)-N-acetyl-β-D-galactosaminyl-proteoglycan 4-β-N-acetylgalactosaminyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.175
CAS No.	96189-40-1
Reaction	UDP-N-acetyl-α-D-galactosamine + β-D-glucuronosyl-(1→3)-N-acetyl-β-D-galactosaminyl-proteoglycan = UDP + N-acetyl-β-D-galactosaminyl-(1→4)-β-D-glucuronosyl-(1→3)-N-acetyl-β-D-galactosaminyl-proteoglycan
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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.