Creative Enzymes®

N-acetylgalactosaminyl-proteoglycan 3-β-glucuronosyltransferase

Cat. No. EXWM-2455

Lot. No. (See product label)

Introduction

Description	Involved in the biosynthesis of chondroitin and dermatan sulfate. The human chondroitin synthetase is a bifunctional glycosyltransferase, which has the 3-β-glucuronosyltransferase and 4-β-N-acetylgalactosaminyltransferase (EC 2.4.1.175) activities required for the synthesis of the chondroitin sulfate disaccharide repeats. Similar chondroitin synthase 'co-polymerases' can be found in Pasteurella multocida and Escherichia coli. There is also another human protein with apparently only the 3-β-glucuronosyltransferase activity.
Synonyms	chondroitin glucuronyltransferase II; α-D-glucuronate:N-acetyl-β-D-galactosaminyl-(1→4)-β-D-glucuronosyl-proteoglycan 3-β-glucuronosyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.226
CAS No.	269077-98-7
Reaction	UDP-α-D-glucuronate + N-acetyl-β-D-galactosaminyl-(1→4)-β-D-glucuronosyl-proteoglycan = UDP + β-D-glucuronosyl-(1→3)-N-acetyl-β-D-galactosaminyl-(1→4)-β-D-glucuronosyl-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 ℃.