Creative Enzymes®

glucuronylgalactosylproteoglycan 4-β-N-acetylgalactosaminyltransferase

Cat. No. EXWM-2399

Lot. No. (See product label)

Introduction

Description	Requires Mn2+. Involved in the biosynthesis of chondroitin sulfate. Key enzyme activity for the initiation of chondroitin and dermatan sulfates, transferring GalNAc to the GlcA-Gal-Gal-Xyl-Ser core.
Synonyms	N-acetylgalactosaminyltransferase I; glucuronylgalactosylproteoglycan β-1,4-N-acetylgalactosaminyltransferase; uridine diphosphoacetylgalactosamine-chondroitin acetylgalactosaminyltransferase I; UDP-N-acetyl-D-galactosamine:D-glucuronyl-1,3-β-D-galactosyl-proteoglycan β-1,4-N-acetylgalactosaminyltransferase; UDP-N-acetyl-D-galactosamine:D-glucuronyl-(1→3)-β-D-galactosyl-proteoglycan 4-β-N-acetylgalactosaminyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.4.1.174
CAS No.	96189-39-8
Reaction	UDP-N-acetyl-α-D-galactosamine + [protein]-3-O-(β-D-GlcA-(1→3)-β-D-Gal-(1→3)-β-D-Gal-(1→4)-β-D-Xyl)-L-serine = UDP + [protein]-3-O-(β-D-GalNAc-(1→4)-β-D-GlcA-(1→3)-β-D-Gal-(1→3)-β-D-Gal-(1→4)-β-D-Xyl)-L-serine
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 ℃.