

## 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.