

glucuronyl-galactosyl-proteoglycan 4- α -N-acetylglucosaminyltransferase

Cat. No. EXWM-2452

Lot. No. (See product label)

Introduction

Description

Enzyme involved in the initiation of heparin and heparan sulfate synthesis, transferring GlcNAc to the (GlcA-Gal-Gal-Xyl-)Ser core. Apparently products of both the human EXTL2 and EXTL3 genes can catalyse this reaction. In *Caenorhabditis elegans*, the product of the rib-2 gene displays this activity as well as that of EC 2.4.1.224, glucuronosyl-N-acetylglucosaminyl-proteoglycan 4- α -N-acetylglucosaminyltransferase. For explanation of the use of a superscript in the systematic name, see 2-Carb-37.2.)

Synonyms

α -N-acetylglucosaminyltransferase I; α 1,4-N-acetylglucosaminyltransferase; glucuronosylgalactosyl-proteoglycan 4- α -N-acetylglucosaminyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.223

CAS No.

179241-74-8

Reaction

UDP-N-acetyl-D-glucosamine + β -D-glucuronosyl-(1 \rightarrow 3)- β -D-galactosyl-(1 \rightarrow 3)- β -D-galactosyl-(1 \rightarrow 4)- β -D-xylosyl-proteoglycan = UDP + α -N-acetyl-D-glucosaminyl-(1 \rightarrow 4)- β -D-glucuronosyl-(1 \rightarrow 3)- β -D-galactosyl-(1 \rightarrow 3)- β -D-galactosyl-(1 \rightarrow 4)- β -D-xylosyl-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.