Creative Enzymes®

N-acetyl-β-glucosaminyl-glycoprotein 4-β-N-acetylgalactosaminyltransferase

Cat. No. EXWM-2473

Lot. No. (See product label)

Introduction

Description

The enzyme from human can transfer N-acetyl-D-galactosamine (GalNAc) to N-glycan and O-glycan substrates that have N-acetyl-D-glucosamine (GlcNAc) but not D-glucuronic acid (GlcUA) at their non-reducing end. The N-acetyl-β-D-glucosaminyl group is normally on a core oligosaccharide although benzyl glycosides have been used in enzyme-characterization experiments. Some glycohormones, e.g. lutropin and thyrotropin contain the N-glycan structure containing the N-acetyl-β-D-galactosaminyl-(1→4)-N-acetyl-β-D-glucosaminyl group.

Synonyms

β1,4-N-acetylgalactosaminyltransferase III; β4GalNAc-T3; β1,4-N-acetylgalactosaminyltransferase IV; β4GalNAc-T4; UDP-N-acetyl-D-galactosamine:N-acetyl-D-glucosaminyl-group β-1,4-N-acetylgalactosaminyltransferase; UDP-N-acetyl-D-galactosamine:N-acetyl-β-D-glucosaminyl-group 4-β-N-acetylgalactosaminyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.4.1.244

Reaction

UDP-N-acetyl-α-D-galactosamine + N-acetyl-β-D-glucosaminyl group = UDP + N-acetyl-β-D-galactosaminyl-(1→4)-N-acetyl-β-D-glucosaminyl group

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 ℃.