

N-acetylgalactosamine 4-sulfate 6-O-sulfotransferase

Cat. No. EXWM-3393

Lot. No. (See product label)

Introduction

Description

The enzyme is activated by divalent cations and reduced glutathione. The enzyme from human transfers sulfate to position 6 of both internal residues and non-reducing terminal GalNAc 4-sulfate residues of chondroitin sulfate and dermatan sulfate. Oligosaccharides derived from chondroitin sulfate also serve as acceptors but chondroitin sulfate E, keratan sulfate and heparan sulfate do not. Differs from EC 2.8.2.17, chondroitin 6-sulfotransferase, in being able to use both chondroitin and dermatan as effective substrates

Synonyms

GalNAc4S-6ST; CHST15 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.8.2.33

CAS No.

242469-38-1

Reaction

(1) 3'-phospho-5'-adenylyl sulfate + [dermatan]-4-O-sulfo-N-acetyl-D-galactosamine = adenosine 3',5'-bisphosphate + [dermatan]-4,6-di-O-sulfo-N-acetyl-D-galactosamine; (2) 3'-phospho-5'-adenylyl sulfate + [chondroitin]-4-O-sulfo-N-acetyl-D-galactosamine = adenosine 3',5'-bisphosphate + [chondroitin]-4,6-di-O-sulfo-N-acetyl-D-galactosamine

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.