Creative Enzymes®

heparosan-N-sulfate-glucuronate 5-epimerase

Cat. No. EXWM-5402

Lot. No. (See product label)

Introduction

Description	The enzyme acts on D-glucosyluronate residues in N-sulfated heparosan polymers, converting them to L-iduronate, thus modifying the polymer to heparan-N-sulfate. The enzyme requires that at least the N-acetylglucosamine residue linked to C-4 of the substrate has been deacetylated and N-sulfated, and activity is highest with fully N-sulfated substrate. It does not act on glucuronate residues that are O-sulfated or are adjacent to N-acetylglucosamine residues that are O-sulfated at the 6 position. Thus the epimerization from D-glucuronate to L-iduronate occurs after N-sulfation of glucosamine residues but before O-sulfation. Not identical with EC 5.1.3.19 chondroitin-glucuronate 5-epimerase or with EC 5.1.3.36, heparosan-glucuronate 5-epimerase.
Synonyms	heparosan epimerase; heparosan-N-sulfate-D-glucuronosyl 5-epimerase; C-5 uronosyl epimerase; polyglucuronate epimerase; D-glucuronyl C-5 epimerase; poly[(1,4)-β-D-glucuronosyl-(1,4)-N-sulfo-α-D-glucosaminyl] glucurono-5-epimerase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 5.1.3.17
CAS No.	112567-86-9
Reaction	Epimerization of D-glucuronate in heparosan-N-sulfate to L-iduronate.
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 ℃.