Creative Enzymes®

hyaluronan synthase

Cat. No. EXWM-2440

Lot. No. (See product label)

Introduction

Description The enzyme from Streptococcus Group A and Group C requires Mg2+.The enzyme adds GlcNAc to nascent hyaluronan when the non-reducing end is GlcA, but it adds GlcA when the non-reducing end is GlcNAc. The enzyme is highly specific for UDP-GlcNAc and UDP-GlcA; no copolymerization is observed if either is replaced by UDP-Glc, UDP-Gal, UDP-GalNAc or UDP-GalA. Similar enzymes have been found in a variety of organisms.

Synonyms spHAS; seHAS

Product Information

Form Liquid or lyophilized powder

EC Number EC 2.4.1.212

CAS No. 39346-43-5

Reaction (1) UDP-α-N-acetyl-D-glucosamine + β-D-glucuronosyl-(1→3)-N-acetyl-β-D-glucosaminyl-(1→4)-[nascent hyaluronan] = UDP + N-acetyl-β-D-glucosaminyl-(1→4)-β-D-glucuronosyl-(1→3)-N-acetyl-β-D-glucosaminyl-(1→4)-[nascent hyaluronan]; (2) UDP-α-D-glucuronate + N-acetyl-β-D-glucosaminyl-(1→4)-β-D-glucuronosyl-(1→3)-[nascent hyaluronan] = UDP + β-D-glucuronosyl-(1→3)-N-acetyl-β-D-glucosaminyl-(1→4)-β-D-glucuronosyl-(1→3)-[nascent hyaluronan]

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 ℃.