

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 \rightarrow 3)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)-[nascent hyaluronan] = UDP + N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)- β -D-glucuronosyl-(1 \rightarrow 3)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)-[nascent hyaluronan]; (2) UDP- α -D-glucuronate + N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)- β -D-glucuronosyl-(1 \rightarrow 3)-[nascent hyaluronan] = UDP + β -D-glucuronosyl-(1 \rightarrow 3)-N-acetyl- β -D-glucosaminyl-(1 \rightarrow 4)- β -D-glucuronosyl-(1 \rightarrow 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 °C for short term. For long term storage, store it at -20 °C~-80 °C.