

gellan tetrasaccharide unsaturated glucuronyl hydrolase

Cat. No. EXWM-3862

Lot. No. (See product label)

Introduction

Description

The enzyme releases 4-deoxy-4(5)-unsaturated D-glucuronic acid from oligosaccharides produced by polysaccharide lyases, e.g. the tetrasaccharide β -D-4-deoxy- Δ 4-GlcAp-(1 \rightarrow 4)- β -D-Glcp-(1 \rightarrow 4)- α -L-Rhap-(1 \rightarrow 3)- β -D-Glcp produced by EC 4.2.2.25, gellan lyase. The enzyme can also hydrolyse unsaturated chondroitin and hyaluronate disaccharides (β -D-4-deoxy- Δ 4-GlcAp-(1 \rightarrow 3)- β -D-GalNAc, β -D-4-deoxy- Δ 4-GlcAp-(1 \rightarrow 3)- β -D-GalNAc6S, β -D-4-deoxy- Δ 4-GlcAp2S-(1 \rightarrow 3)- β -D-GalNAc, β -D-4-deoxy- Δ 4-GlcAp-(1 \rightarrow 3)- β -D-GlcNAc), preferring the unsulfated disaccharides to the sulfated disaccharides.

Synonyms

UGL (ambiguous); unsaturated glucuronyl hydrolase (ambiguous)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 3.2.1.179

Reaction

β -D-4-deoxy- Δ 4-GlcAp-(1 \rightarrow 4)- β -D-Glcp-(1 \rightarrow 4)- α -L-Rhap-(1 \rightarrow 3)- β -D-Glcp + H₂O = 5-dehydro-4-deoxy-D-glucuronate + β -D-Glcp-(1 \rightarrow 4)- α -L-Rhap-(1 \rightarrow 3)- β -D-Glcp

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.