

guluronate-specific alginate lyase

Cat. No. EXWM-5086

Lot. No. (See product label)

Introduction

Description

The enzyme catalyses the degradation of alginate by a β -elimination reaction. It cleaves the (1 \rightarrow 4) bond between α -L-guluronate and either α -L-guluronate or β -D-mannuronate, generating oligosaccharides with 4-deoxy- α -L-erythro-hex-4-enuronosyl groups at their non-reducing ends and α -L-guluronate at the reducing end. Depending on the composition of the substrate, the enzyme produces oligosaccharides ranging from two to six residues, with preference for shorter products. cf. EC 4.2.2.3, mannuronate-specific alginate lyase.

Synonyms

alginase II; guluronate lyase; L-guluronan lyase; L-guluronate lyase; poly- α -L-guluronate lyase; polyguluronate-specific alginate lyase; poly(α -L-1,4-guluronide) exo-lyase; poly(α -L-guluronate) lyase; poly[(1 \rightarrow 4)- α -L-guluronide] exo-lyase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 4.2.2.11

CAS No.

64177-88-4

Reaction

Eliminative cleavage of alginate to give oligosaccharides with 4-deoxy- α -L-erythro-hex-4-enuronosyl groups at their non-reducing ends and α -L-guluronate at their reducing end.

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.