

Feruloyl esterase from *Acetivibrio cellulolyticus*, Recombinant

Cat. No. NATE-1204

Lot. No. (See product label)

Introduction

Description

In enzymology, a feruloyl esterase (EC 3.1.1.73) is an enzyme that catalyzes the chemical reaction: feruloyl-polysaccharide + H₂O → ferulate + polysaccharide. Thus, the two substrates of this enzyme are feruloyl-polysaccharide and H₂O, whereas its two products are ferulate and polysaccharide. This enzyme belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds.

Synonyms

feruloyl esterase; ferulic acid esterase (FAE); hydroxycinnamoyl esterase; hemicellulase accessory enzyme; cinnamoyl ester hydrolase (cinnAE); EC 3.1.1.73; 4-hydroxy-3-methoxycinnamoyl-sugar hydrolase

Product Information

Source

Acetivibrio cellulolyticus

Form

Supplied in 3.2 M ammonium sulphate

EC Number

EC 3.1.1.73

CAS No.

134712-49-5

Molecular Weight

32631.3 Da

Purity

> 95 % as judged by SDS-PAGE

Activity

1.169 U/mg

Concentration

9.486 U/mL

Optimum temperature

> 37°C

Unit Definition

One unit is defined as the amount of enzyme required to release 1 μmol of ferulic acid per minute from 0.187 mM methyl ferulate in 50 mM sodium phosphate buffer, pH 6.5, at 37°C, and at 335 nm, and using a molar extinction coefficient of 14000 M⁻¹cm⁻¹.

Storage and Shipping Information

Storage

Store at 4°C (shipped at room temperature)