Creative Enzymes®

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 rightleftharpoons 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 1μmol 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)