

Feruloyl Esterase from Ruminococcus albus, Recombinant

Cat. No. NATE-1543

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

Species	Ruminococcus albus
Source	E. coli
Form	35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl ₂ , 0.02% sodium azide and 25% (v/v) glycerol
EC Number	EC 3.1.1.73
CAS No.	134712-49-5
Molecular Weight	33.7 kDa
Purity	>90% as judged by SDS-PAGE
Concentration	1 mg/mL
Optimum pH	7
Optimum temperature	37 °C
Specificity	Ferulate crosslinks between xylans and lignin

Storage and Shipping Information

Storage This enzyme is shipped at room temperature but should be stored at -20 °C.