



Product Information

Recombinant *Paenibacillus terrae* feruloyl esterase 1A

Cat. No.: X23-08-YM1006

Size: 1 mg; 2 mg; 3 mg; 6 mg

Enzyme Commission Number: 3.1.1.73

Synonym: PtFae1A; Ferulic acid esterase; Hydroxycinnamoyl esterase; Hemicellulase accessory enzyme; Cinnamoyl ester hydrolase

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Recombinant <i>Paenibacillus terrae</i> feruloyl esterase 1A produced by <i>Escherichia coli</i> , plays a role in cleaving the ester link between the polysaccharide main chain of xylans and monomeric or dimeric ferulates.
Expression System	<i>Escherichia coli</i>
Species	<i>Paenibacillus terrae</i>
Concentration	1 mg/mL
Form	Liquid
Purity	≥90%, determined by SDS-PAGE.
Activity	Feruloyl esterases
Buffer	35 mM NaHepes buffer (pH 7.5), 750 mM NaCl, 200 mM imidazole, 3.5 mM CaCl ₂ , and 25% (v/v) glycerol
Applications	Recombinant <i>Paenibacillus terrae</i> feruloyl esterase 1A can be used in research for paper, pulp, food, nutrition, medical, and pharmacological industries. It participates in the de-esterification of ferulate crosslinks between hemicelluloses and lignin.
Storage	Store at -20°C.