

Xylanase 11A & Acetyl xylan esterase 4A from Clostridium thermocellum, Recombinant

Cat. No. NATE-1536

Lot. No. (See product label)

Introduction

Description In enzymology, an acetylxylan esterase (EC 3.1.1.72) is an enzyme that catalyzes a chemical reaction, the deacetylation of xylans and xylo-oligosaccharides. This enzyme belongs to the family of hydrolases, specifically those acting on carboxylic ester bonds.

Synonyms Acetylxylan esterase; EC 3.1.1.72; 188959-24-2; 9000-82-2

Product Information

Species Clostridium thermocellum

Source E. coli

Form 35 mM NaHepes buffer, pH 7.5, 750 mM NaCl, 200 mM imidazol, 3.5 mM CaCl₂, 0.02% sodium azide and 25% (v/v) glycerol

EC Number EC 3.2.1.8 and 3.1.1.72

Molecular Weight 72.5 kDa

Purity >90% as judged by SDS-PAGE

Concentration 0.75 mg/mL

Optimum pH 4.5-8.0

Optimum temperature 65 °C

Specificity Xylans, such as oat spelt xylan and arabinoxylan (GH11), and removes acetate from acetylated xylan (CE4)

Storage and Shipping Information

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