



Product Information

Recombinant *Clostridium thermocellum* cellulase 44A1

Cat. No.: X23-08-YM380

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

Enzyme Commission Number: 3.2.1.4

Synonym: CtCel44A; Beta-cellobiose

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

Product Information

Description	Recombinant <i>Clostridium thermocellum</i> cellulase 44A1 produced by <i>Escherichia coli</i> , possesses broad <i>exo</i> -1,3/1,6- β -glucanase specificity and <i>endo</i> - β -1,4-glucanase activity.
Expression System	<i>Escherichia coli</i>
Species	<i>Clostridium thermocellum</i>
Concentration	1 mg/mL
Form	Liquid
Purity	$\geq 90\%$, determined by SDS-PAGE.
Activity	Cellulases
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>Clostridium thermocellum</i> cellulase 44A1 can be used in research for textile, animal food, pharmaceutical, detergent, and paper processing industries. It has the ability to hydrolyze 1,3-1,4- β -glucans, cellulosic carbohydrates, and xyloglucan.
Storage	Store at -20°C.