



Product Information

Recombinant *Clostridium thermocellum* β -mannanase 5A1

Cat. No.: X23-08-YM040

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

Enzyme Commission Number: 3.2.1.78

Synonym: CtMan5A; Mannan *endo*-1,4- β -mannosidase; *Endo*- β -1,4-mannase; β -D-Mannanase

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

Product Information

Description	Recombinant <i>Clostridium thermocellum</i> β -mannanase 5A1 produced by <i>Escherichia coli</i> , is responsible for the enzymatic cleavage of β -1,4-mannans and plays a key role in the germination of seeds and microbial hemicellulose degradation.
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	β -Mannanases
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> β -mannanase 5A1 can be used in industrial and consumer production. It has the ability to hydrolyze 1,4- β -d-mannans, galactomannans, glucomannans, and mannans.
Storage	Store at -20°C.