

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0047
<b>LOT:</b>	2008-0047
<b>Activity:</b>	Carbohydrate binding module (see comments for activity)
<b>Synonyms:</b>	CBM; CBD; carbohydrate binding domain
<b>Nomenclature:</b>	CtM6 is a family 6 galactose side-chain carbohydrate binding module
<b>Source organism:</b>	<i>Clostridium thermocellum</i>
<b>Enzyme Commission No.:</b>	-
<b>Activity:</b>	} See comments below
<b>Specific activity:</b>	
<b>Purity:</b>	>95% as judged by SDS-PAGE
<b>Form and storage:</b>	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
<b>pH optimum:</b>	-
<b>Temperature optimum:</b>	-
<b>[Protein]:</b>	3 mg/mL
<b>Sequence length:</b>	145 amino acids ( <a href="#">view sequence</a> )
<b>Accession No.:</b>	<a href="#">ABN53395</a>
<b>Molecular weight:</b>	16710.3 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
<b>Biological function:</b>	Anchoring of modular enzyme to target polysaccharide
<b>Major application(s):</b>	Research
<b>Comments:</b>	Binds to the galactose side-chains of xyloglucan and galactomannan
<b>Usage:</b>	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use
<b>Assay:</b>	To recover maximal CtM6 activity, centrifuge a required volume of the precipitated protein suspension provided (13000 ×g for 5 min), remove the supernatant and re-suspend the resulting pellet in the same volume of 20 mM Tris-HCl, pH 7.5, 20 mM NaCl, 5 mM CaCl <sub>2</sub> . Proceed with the assay as required



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**Primary sequence:**

MYPKLTGTVIGTQGSWNNIGNTIHKAFDGDLNTFFDGPTANGCWLGLDFGEGVRNVITQIKFCPRSGYEQRMIGG  
IFQGANKEDFSDAVTLFTITSLPGSGTLTSVDVDNPTGFRYVRYLSPDGSNGNIAELQFFGTPAGEENDD

**Literature:**

1. Unpublished data