

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0042
LOT:	2008-0042
Activity:	CBM35 that binds Δ -4,5-anhydrogalacturonic acid
Synonyms:	Family 35 carbohydrate-binding module
Nomenclature:	CAZy [CBM35, carbohydrate-binding module family 35] , CBM35A, CtCBM35A
Source organism:	<i>Clostridium thermocellum</i> ATCC 27405
Enzyme Commission No.:	-
Activity:	-
Specific activity:	-
Purity:	> 70 % as judged by SDS-PAGE. A contaminant of 75 kDa without CBM like properties co-purifies with CtCBM35A
Form and storage:	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
pH optimum:	-
Temperature optimum:	-
[Protein]:	1 mg/mL
Sequence length:	136 amino acids (view sequence)
Accession No.:	ABN54336 , A3DK57
Molecular weight:	16826.6 Da (theoretical) 15200 Da (observed by SDS-PAGE) - (observed by mass spectrometry)
Biological function:	Binds Δ -4,5-anhydrogalacturonic acid (see Montanier <i>et al.</i> (2009) PNAS 106, 3065-3070)
Major application(s):	Carbohydrate research , fundamental research
Comments:	PDB: 2W1W , 2W47
Usage:	Agitate bottle sufficiently to fully homogenise enzyme precipitate before use

Assay:

To recover maximal CtCBM35A activity, centrifuge a required volume of the precipitated protein suspension provided (13000 ×g for 2 min), remove the supernatant and resuspend the resulting pellet in the same volume of 20 mM Tris-HCl, pH 7.5, 20 mM NaCl, 5 mM CaCl₂. Proceed with the assay as required

Primary sequence:

MPVIYQAEDAI IYNAILLETVNAGYTGSCYVNYHNEVGGY IEWNVNAPSSGSYALIFRYANGTTANRPMRITVNGN
IVKPSMDFVSTGAWTTWNEAGIVANLNQGNVIRATAIASDGGPNVDYLKVF SANAFQ PVS

Literature:

1. [Montanier *et al.* \(2009\) *PNAS* **106**, 3065-3070](#)