

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0142
LOT:	2008-0142
Activity:	Cellulase
Synonyms:	Endoglucanase; avicelase; β -1,4-endoglucan hydrolase; β -1,4-glucanase; carboxymethyl cellulose; celludextrinase; endo-1,4- β -D-glucanase; endo-1,4- β -D-glucanohydrolase; endo-1,4- β -glucanase
Nomenclature:	Cellulase, GH5
Source organism:	<i>Rhizobium etli</i> CFN 42
Enzyme Commission No.:	3.2.1.4
Activity:	-
Specific activity:	-
Purity:	-
Form and storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	325 amino acids (view sequence)
Accession No.:	Q2KDN4
Molecular weight:	37319. 7Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Endohydrolysis of (1->4)- β -D-glucosidic linkages in cellulose, lichenin and cereal β -D-glucans (will also hydrolyse 1,4-linkages in β -D-glucans also containing 1,3-linkages)
Potential application(s):	Biomass conversion , carbohydrate research
Comments:	-
Usage:	-
Assay:	-

NOTE: this product is currently under development. If you wish to prioritise the production of this enzyme/protein, please follow [this link](#)

Primary sequence:

GAPCYRQVNLSSGGEYGERGAIYATNYIYPSEQTIRYFAEKGMSIIRLPFRWERLQPALGGRLDEDEFKRIKDTVG
LIRKQGMVLLDPHNFGYYDEAQVGTAPATDAAFADFWARLAVEFANQDGVLFGLMNEPHDIKATDWLDAANAAI
RAIRAVGARNLILVPGTAWSGAHSWEEDVIGGANGTVMLGVRDPLDFYAYEVHQYLDVDSSGTHASCEGAAAAVE
ALAGVTSWLKRNHHRGFLGEGFGGSADKDCMSGLTKIYAIMSGNSDVWLGWSYWAAGEWWPADEAFNVQPYKGT
PQMQLLAASAKADAGACTAVKTAGN

Literature:

1. [Gonzalez et al. \(2006\) Proc. Natl. Acad. Sci. USA 103, 3834-3839](#)