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Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0423
LOT:	2009-0423
Activity:	α-Glucosidase
Synonyms:	Acid maltase; glucoinvertase; glucosidosucrase; lysosomal alpha-glucosidase; maltase; maltase-glucoamylase
Nomenclature:	CAZy [GH13 subf23, glycoside hydrolase family 13 subfamily 23, member of clan GH-H], CC_2285
Source organism:	*Caulobacter crescentus* CB15
Enzyme Commission No.:	3.2.1.20
Activity:	-
Specific activity:	-
Purity:	-
Form and Storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-

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

Sequence length:	526 amino acids (view sequence)	
Accession No.:	Q9A610, NP_421088.1	
Molecular weight:	61804.4 Da	(theoretical)
	-	(observed by SDS-PAGE)
	-	(observed by mass spectrometry)
Biological function:	Hydrolysis of terminal, non-reducing (1->4)-linked α-D-glucose residues with release of α-D-glucose	
Potential application(s):	Carbohydrate research, fundamental research	
Comments:	Group of enzymes whose specificity is directed mainly toward the exohydrolysis of 1,4-α-glucosidic linkages, and that hydrolyse oligosaccharides rapidly, relative to polysaccharides, which are hydrolysed relatively slowly, or not at all	

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Usage: -

Assay: -

Primary sequence:

MNAEWWRGAVIYQVYPRSFADSNGDGVGDLPGITAHLDHIASLGVEGVWLSPFFTSPMKDFGYDVSNYCDVDPIF
GTLADFDALIARAHALGLKIIIDLVFSHTSDEHPWFVESRQDRSNAKADWFVWADAKPDGSPPSNWQSVFGGPAW
TWDARRGQYYMHNFLSSQPQLNLHNPAVQEALLAVTQFWIDKGVDGFRFDAINFSMHDPALTDNPPLPPGGKRTR
PFDFQDKIHNQSHADIPKFLSRLRALTDAAGGRFSVAEVGGDHAEREMKLFTAGEDRLNSAYGFLYLYADKLIGE
MIPQGAAMWPGEAGEGWPSWTFSNHDAPRAVSRWAEGRDRKAFAELCLLLLMGLRGNVFVYQGEELGLPQAHVPF
ERLQDPEAIANWPQTLGRDGARTPMPWVSGALNAGFSGVEPWLPVDPEHLPLAVDAQEADPASTLNVARRLIGLR
RAYPALRTGAITFIDTNSPLLIFQRGEGADAVLLAFNLGFETVTWSLPDGWTLIDGVNLGGEGQMPVCAGLIARR
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Literature:

1. Nierman *et al.* (2001) *PNAS* **98**, 4136-4141