

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0425
LOT:	2009-0425
Activity:	α -Glucosidase
Synonyms:	Acid maltase; glucoinvertase; glucosidosucrase; lysosomal α -glucosidase; maltase; maltase-glucoamylase
Nomenclature:	CAZy [GH13 subf30, glycoside hydrolase family 13 subfamily 30, member of clan GH-H], SCO7010, SC8F11.36c, <i>algA</i>
Source organism:	<i>Streptomyces coelicolor</i> A3(2)
Enzyme Commission No.:	3.2.1.20
Activity:	-
Specific activity:	-
Purity:	-
Form and Storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	534 amino acids (view sequence)
Accession No.:	Q9KZE3 , NP_631075.1 , SCOE100226:SCO7010-MON
Molecular weight:	62975.3 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

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

Usage: -

Assay: -

Primary sequence:

MAAPNSHRAEDWWRDAVIYQVYPRSFADGDGDTGDLAGVRARLPYLAELGVDAVWFTPWYVSPDVDGGYDVADY
RTIDPAFGTLGEAEKLI AEARELGIRTIVDIVPNHVSDRHAWFRAALEAGPGSAERERFHFPRGRGADGELPPND
WPSQFSGRWTWTRVPDGEWYLHLFTPEQPDLNWAHPEVRRHEEVLRFWFERGVAGVRIDSAALLAKDPALADFVE
GVDPHPYIDQDELHDIYRSWRKVADEYGGVFVGEVWLPDAERFARYLRPDELHTAFNFNFLSCPWEADRLRRTID
DTLAEHAPVGPATWVLCNHDVTRTVTRYGRADTGFDFAKKAFTPTDLVLGTRRARAAALLTLALPGSVYLYQG
EELGLPEADI PRDRIQDPMHFRSGGVDPGRDGCVRVLPWAADAPYCGFGSETEPWLPQPEGWAAYAADRQGADPE
SMLS LYRRALGLRRSTAGFGDGLDWLPAPDGVLAFFRRAGGPVCVVNLSAAPVELPAHSVLLVSGPLDEAGRLP
ADTAVWLRA

Literature: 1. [Bentley *et al.* \(2002\) *Nature* 417, 141-147](#)