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[full product listing at www.prozomix.com/products/listing]

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0419
LOT:	2009-0419
Activity:	Glycogen debranching enzyme
Synonyms:	Pullulanase; limit dextrinase (erroneous); amylopectin 6-glucanohydrolase; bacterial debranching enzyme; debranching enzyme; α-dextrin endo-1,6-α-glucosidase; R-enzyme; pullulan α-1,6-glucanohydrolase; pullulan 6-α-glucanohydrolase
Nomenclature:	CAZy [GH13 subf11, glycoside hydrolase family 13 subfamily 11, member of clan GH-H]
Source organism:	*Bradyrhizobium sp.* BTAi1
Enzyme Commission No.:	3.2.1.41
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:	691 amino acids (view sequence)
Accession No.:	ABQ38242
Molecular weight:	81897.5 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Hydrolysis of (1→6)-α-D-glucosidic linkages in pullulan, amylopectin and glycogen, and in the α- and β-limit dextrins of amylopectin and glycogen
Potential application(s):	Fundamental research
Comments:	-
Usage:	-

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Assay: -

Primary sequence:

MRLSAGSHARLGATWDGRGTNFALFSANAEKVELCLFDSQGRREIERIELPERTEDVWHGYLNDVSPGQLYGYRV
YGPYEPERGHRFNANKLLLDPYAKRLAGRLVWSDAHFAYRAGSPREDLSFDRRDNARGMPKAVVIDETFNWGRRE
MRPQIPWEDTIIYEAHVKGLTNRRDDVPPNLRGTFGGLSAPAMIKHLKRLGVTTIELLPIHAFIDDRMLVEKKLV
NYWGYNTISFFAPEQRYAQDNPLDAFRTTVARLHDAGIEVMLDVVYNHTAEGNHLGPTLCYRGIDNASYYWLQPD
NPRFYDDFTGCGSSVNLTHPRVLQMVMDSLRYWVEVCHVDGFRFDLATTLAREKHGFDRRSGFLTAVRQDPVLAG
VKLVAEPWDVGLGGYQVGAFPSQWSEWNDRYRSAMRRYWSGEGSLIGEVSSRMTGSSDIFNHDGRTQRASVNHVT
VHDGFTLADLFSYNSKHNEANGEDNRDGSNDNHSNNCGHEGPSSDPAINALRRQLRKNQLACLFLAQGLPLLLAG
DEVGNSQSGNNNAYCQDNEVGWVDWSGIGREGDDLTDFIAHMTELRRRFGQIRARRWLDGRRADGSFGVLWLTPS
AEEMTQTDWTFPDGRFLAYVLAPVEQEQAPIFIVLNAAPEEIGFKLPKLAEYKTWQQVLDTTEIQQKPADFAAGA
DLKAPPRSVLAYAGVS

Literature: 1. Giraud *et al.* (2007) *Science* **316**, 1307-1312