

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0112
LOT:	2008-0112
Activity:	β-Glucosidase
Synonyms:	Amygdalase, β-D-glucoside glucohydrolase, cellobiase
Nomenclature:	Glucosidase, GH3
Source organism:	<i>Rhizobium etli</i> CFN 42
Enzyme Commission No.:	3.2.1.21
Activity:	-
Specific activity:	-
Purity:	-
Form and storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	814 amino acids (view sequence)
Accession No.:	Q8KKX3
Molecular weight:	90000.9 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Hydrolysis of terminal non-reducing β-D-glucose residues with release of β-D-glucose (wide specificity for β-D-glucosides, some examples also hydrolyse one or more of the following: β-D-galactosides, α-L-arabinosides, β-D-xylosides and β-D-fucosides)
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, please follow [this link](#)

Primary sequence:

MIDKKALLDNMTLAEQVSLLSGDTFWSLPPIDRLGIGRLRLTDGPNARGAGS FVGGVTAAAFVGVIAIGASWNP
DLAKEIGSALGDEVLSKGAHVSLAPT VNIQRSVTNGRNFECFSEDPILTAELAVGYIEGLQSTKVGATIKHFVGN
ESEIERTTISDDIDERTLREVYLI PFETAVKRAKVWAVMSSYNKLNQTYTAESHWLLNEVLRGDWGFNGVMSDW
FGSRSTAPT V NAGLDLEMPGPTDRGSKLLAAVEGGEVSVETIRACVRN I L TLMERTGAINDHREFKEYAIDQPK
HRALIRRAGAESA VLLQNDGILPLAQQGMVAIIGPNAKVAQVMGGGSAQLNPHYVISPWQGLVDALGEENLCYAQ
GCNNYRFQPLIENPTTFEFFFQGRELAGEPVKVVEEPSLGVWLPVVAEGFVDPLRFSARMRTIFTASEAGVYRVG
LTSAGLGRVYVDGRLVVD AWASWIRGTTFFEEGCEEVVEIITLEAGRTYE VVAEYARHDHVNL YIAAIRVIGIRF
SAEAEIAEAAA VAAKADHAVV FVGR TGDWDTEGSDLRGIALPGLQNQLVEAVIAANPNTIVVLQTGGPVEMPWLS
GARAVLQCWYPGQEAGNAIADVLLGKAEP SGRLAQTFPVRWADNPTHTEDDAVYPGKDGHVRYDEGVFVGYRHYD
RHGIKPLFPFGHGLGYSSFAMSDLTVGLPDAAGAVT TLELTN I SERPGSAVVQIYVGDVEASIPRPVKELKAFS
KIALEPGEKRLRFILDARTFAFFD TTERRWR IEAGEFAVMAGFSATDIRLSLTVTQKGA VLAL

Literature:

1. Girard *et al.* (1991) *J. Bacteriol.* **173**, 2411-2419