

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:

MIDKKALLDNMTLAEQVSLLSGDTFWSLPPIDRLGIGRLRLTDGPNRGARGAGSFVGGVTAAAFVVGIAIGASWNP
DLAKEIGSALGDEVLSKGAHVSLAPT VNIQRSVTNGRNFECFSEDPILTAELAVGYIEGLQSTKVGATIKHFVGN
ESEIERTTISDDIDERTLREVYLI PFETAVKRAKVWAVMSSYNKLNQTYTAESHWLLNEVLRGDWGFNGVMSDW
FGSRSTAPT V NAGLDLEMPGPTRDRGSKLLAAVEGGEVSVETIRACVRN I L TLMERTGAINDHREFKEYAIDQPK
HRALIRRAGAESA VLLQNDGILPLAQQGMVAI I G P N A K V A Q V M G G G S A Q L N P H Y V I S P W Q L V D A L G E E N L C Y A Q
GCNNYRFQPLIENPTTFEFFFQGRELAGEPVKVVEEPSLGVWLPVVAEGFVDPLRFSARMRTIFTASEAGVYRVG
LTSAGLGRVYVDGRLVVD AWASWIRGTTFFEEGCEEVVEGEITLEAGRTYE VVAEYARHDHVNLYIAAIRVIGIRF
SAEAEIAEAAA VAAKADHAVV FVGR TGDWDTEGSDLRGIALPGLQNQLVEAVIAANPNTIVVLQTGGPVEMPWLS
GARAVLQCWYPGQEAGNAIADVLLGKAEP SGR LAQTFFVRWADNPTHTEDDAVYPGKDGHVRYDEGVFVGYRHYD
RHGIKPLFPFGHGLGYSSFAMSDLTVGLPDAAGAVTVTLELTN I SERPGSAVVQIYVGDVEASIPRPVKELKAFS
KIALEPGEKRRLRFILDARTFAFFD T T E R R W R I E A G E F A V M A G F S A T D I R L S L T V T Q K G A V L A L

Literature:

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