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Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0104
LOT:	2008-0104
Activity:	β-Glucosidase
Synonyms:	Amygdalase, β-D-glucoside glucohydrolase, cellobiase
Nomenclature:	Glucosidase, GH3
Source organism:	*Bacteroides fragilis NCTC 9343*
Enzyme Commission No.:	3.2.1.21
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, please follow this link

Sequence length:	792 amino acids (view sequence)	
Accession No.:	Q5LH74	
Molecular weight:	89482.1 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:	-	

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Primary sequence:

NTFGKKKDKVTRLHFYDLNKNGRMDTYENPSAPVEYRVEHLLSQMTLEEKVGQMLTSLGWPMYERVGEDIRLTPQ
LEKEIGEYHIGSLWGFMRADPWTQRTLHTGLNPSLAARASNRLQSYVIEHSRLGIPLFLAEECPHGHMAIGTTVF
PTSIGQASTWNPELIRQMGRVIAIEASAQGAHIGYGPVLDLARDPRWSRVEETYGEDPYLNGVMGTALVRGFQGE
TLNDGKSVIATLKHFASYGWTEGGHNGGTAHIGERELEEAIFPPFREAVGAGALSVMSSYNEIDGNPCTGSRYLL
TDILKDRWQFKGFVVSDLYAVGGLREHGVAGNDYEAAIKAVNAGVDSDLGTNVYAEQLVAAVKRGDVAVATIDKA
VRRILSLKFQMGLFDDPFVDEKQAVQLVASSEHTGLAREVARQSIVLLKNKDKLLPLKKDIRTLAVIGPNADNVY
NMLGDYTAPQADGTVVTVLDGIRQKVSKETRVLYAKGCTVRDSSRTGFKDAIETARNADAVVMVMGGSSARDFSS
EYEETGAAKVTINQISDMESGEGYDRATLHLMGRQLELLEEISRLGKPVVLVLIKGRPLLMEGAIQEAEAIVDAW
YPGMQGGNAVADVLFGDYNPAGRLTLSVPRSVGQLPVYYNTRRKGNRSRYIEEPGTPRYPFGYGLSYTTFSYTDM
KVQVTEGSDDCRVDVTVTIQNQGTADGDEVAQLYFRDDVSSFTTPAKQLRAFSRIHLKAGESREVTFTLDKKSLA
LYMQEGEWVVEPGRFTIMVGGSSEDIACRQAFEINRKYTFKM

Literature:

1. Cerdeno-Tarraga *et al.* (2005) *Science* **307**, 1463-1465