

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0103
LOT:	2008-0103
Activity:	β-Glucosidase
Synonyms:	Amygdalase, β-D-glucoside glucohydrolase, cellobiase
Nomenclature:	Glucosidase, GH3
Source organism:	<i>Bacteroides fragilis</i> NCTC 9343
Enzyme Commission No.:	3.2.1.21
Activity:	-
Specific activity:	-
Purity:	-
Form and storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	832 amino acids (view sequence)
Accession No.:	Q5LIH3
Molecular weight:	95215.7 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:

MKATTSLATSCRLLLLWGVLTLQCLFSTAQKRFTADVEQQAEKILSQMTLDEKLSYIGGINWMYTRPLERFGIPR
LKMSDGPQGLGTHGPSTAYPCALMLAATWNEQLATEYGSALGKDCRARGVHVLLGPAVNIYRAPMCGRNF EYMGE
DPYLTSRMATGYIKGVQGGVMATIKHFIANNSDYDRDHISDDIDERTLNEIYFPSFRAAVQAEVGA VMSSYNL
LNGIYTTTEHPWLLKDVLRQQWGFKGILMSDWGSTHHCIPAVKGGLDLEMPAGSKMQPEELKYLR TGDIT IETID
EKVRHILQTL LAFGFRETQQPDTHIPLKNPQCAQTALNVASEGLVLLKNTNQILPIRSGKVKTIAVVGKNAQGYV
CGGSGEVHPPFYVSVLDGIRKEAAERDIRVEYLDVYDYLPTIIFTDTERKQKGFRAQYFDNMNLEGT PKVEQTE
TKINYSWSSGGTGLKEMPKEQFSVRWNGTICPQETDEYLF T LGGDDGYRLYIDGKLI ADEWHEGAFRNSTYRCMLE
AGKKYDLKIEYFQKGGAAVNF IWKQKNASNNLFVEALNRNDLVVACIGFNSDTEGEGRDRTFELPEDEAQLLQN
TLQSKRPVVGIVNAGGNVEMQSWEPSLKGLLWAWYGGQEAGTAIARTLFGELNPSGKLPITFEKRWEDNPTFHSY
YDPDGDKHVEYAEGIFVGYRGYDKLKREVQYPFGYGLSYTRFKLSAPT VGT PKTDG SVT VTCKLTNTGR TAGAEV
VQLYVSNKDTTVEHPEKELKGF RKVYLEPGETKSIEITVPAEAFSHYDTGSRRFVIDRGSHDILLGFSSRDIKAK
MSVGISR

Literature:

1. [Cerdeno-Tarraga et al. \(2005\) Science 307, 1463-1465](#)