

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0126
<b>LOT:</b>	2008-0126
<b>Activity:</b>	$\beta$ -Mannosidase
<b>Synonyms:</b>	Mannanase, mannanase
<b>Nomenclature:</b>	Mannosidase, GH2
<b>Source organism:</b>	<i>Rhizobium etli</i> CFN 42
<b>Enzyme Commission No.:</b>	<a href="#">3.2.1.25</a>
<b>Activity:</b>	-
<b>Specific activity:</b>	-
<b>Purity:</b>	-
<b>Form and storage:</b>	-
<b>pH optimum:</b>	-
<b>Temperature optimum:</b>	-
<b>[Protein]:</b>	-
<b>Sequence length:</b>	817 amino acids ( <a href="#">view sequence</a> )
<b>Accession No.:</b>	<a href="#">Q2KCY5</a>
<b>Molecular weight:</b>	94113.7 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
<b>Biological function:</b>	Hydrolysis of terminal, non-reducing $\beta$ -D-mannose residues in $\beta$ -D-mannosides
<b>Potential application(s):</b>	<a href="#">Biomass conversion</a> , <a href="#">carbohydrate research</a>
<b>Comments:</b>	-
<b>Usage:</b>	-
<b>Assay:</b>	-

**NOTE:** this product is currently under development. If you wish to prioritise the production of this enzyme, please follow [this link](#)

### Primary sequence:

MIKTVLNSGWTLNCNDTGRAGLPDAIPATVPGCVHLDLLANRLIPDPYIDINEITNDWIGKTDWTYRCRFEALP  
DDDRVQELVFDGLDTVAVILLNGEEIGRSFNMHRTYRFDVSGLLHKAQNELTVSFRSAYAYGAEMEKHYGYRPNN  
YPGPGNLMRKMCMACNFGWDWGPTLVTSGLWKPVRLESWDRARLAETRVTATLSGGDGLVKIHAKVARHGEATCRLT  
AAIGGVTTTAVIRPEEDEVTFELVLPSPKLWPHHLGAQPLYPLTLELLDAGDLDLTYERALGFRSLRLDTSA  
DAHGSAFTFVINDVPLFIAGANWIPDDCFPSRVTAERYAARIEEAKAANIHMLRVWGGGIFERDEFYAACDRMGM  
LVWQDFLFACAAYPEEEPLRSEVEAEVRDNVRLISHASLILWNGNENIWGFDEWGWPIIKQGESWGLGYLD  
LLPRLCVELDPDRPYYPGSPYSGSMEIEPNADAHGCKHIWDVWNDVGYEVYRNYVPRFCSEFGWQAPPTWATIEE  
GVHDQPLTPQSNQVFFHHQKATLGNDKLIIRGLAGHLEPETMDDWHFATQLNQARAIRFGIEHMRSHRNVCKGAVV  
WQFNDCWPVTSWAALDSAGRRKPLWYALKAAAYDPRLLTIQPRDGRLAAVAVNERTLFWRAKISGRRMKLDGTVLA  
EFEFWRLLCDRFEAKEFPLPEDIVRSDLPTEEVIVVEMLDRAAFHYFVEDIELALPVPRLSVDVAIAGGYAITV  
TAENFVKDLCLMADRVDPAVVDTMLVTLPLPESHVFFVVRTAKVISANDIAVGSVLRSLANDLVAGQQ

### Literature:

1. [Gonzalez et al. \(2006\) Proc. Natl. Acad. Sci. USA 103, 3834-3839](#)