

## Recombinant Enzyme Product Specification Sheet

<b>Cat. No.:</b>	PRO-E0123
<b>LOT:</b>	2008-0123
<b>Activity:</b>	β-Mannanase
<b>Synonyms:</b>	Mannan endo-1,4-β-mannosidase, endo-1,4-mannanase
<b>Nomenclature:</b>	Mannanase, GH26
<b>Source organism:</b>	<i>Bacteroides fragilis</i> NCTC 9343
<b>Enzyme Commission No.:</b>	<a href="#">3.2.1.78</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>	371 amino acids ( <a href="#">view sequence</a> )
<b>Accession No.:</b>	<a href="#">Q5LH75</a>
<b>Molecular weight:</b>	45159.8 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
<b>Biological function:</b>	Random hydrolysis of (1->4)-β-D-mannosidic linkages in mannans, galactomannans and glucomannans
<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:**

MKRIGIYIVIVVCILSCISSRRNLLTETRLMLVDTRATEHTAALFYNLRQLTGKRVVYGQHNYEMDGFSDSTRW  
RDEANRCDAYDVTGAYPALASFDFLHFTNPRSWETKELNYIQEKFHVAYNRGNVITFCWHYYSPTGGNFYDTTQ  
VVRHILPGGSYHATFKADLKIADFAHNAKGDDGELIPIIFRPWHEFDGNWFWWGKNHCSVEEFKKLYRFTVTYL  
RDSLEVHNFLYAFSPDCGFTTEAEYLERYPGDKYVDVVGMDNYWDFRPDGGDTSLVVLKARILTQYAQKHGKLSA  
ITETGTQTRDSLWYTQLLSILRSEGVALNYVCTWSGFSPYKGHAAAADFCRFKRDTLVLFADIEIPNFYTW

**Literature:**

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