

## Recombinant Enzyme Product Specification Sheet

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|----------------------------------|---|
| <b>Cat. No.:</b>                 | PRO-E0312   |
| <b>LOT:</b>                      | 2008-0312   |
| <b>Activity:</b>                 | $\beta$ -Xylosidase   |
| <b>Synonyms:</b>                 | 1,4- $\beta$ -D-Xylan xylohydrolase, endo-1,4- $\beta$ -xylosidase, xylan 1,4- $\beta$ -xylosidase, xylobiase |
| <b>Nomenclature:</b>             | Xylosidase, GH43  |
| <b>Source organism:</b>          | <i>Opitutus terrae</i> PB90-1   |
| <b>Enzyme Commission No.:</b>    | <a href="#">3.2.1.37</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>          | 377 amino acids ( <a href="#">view sequence</a> )   |
| <b>Accession No.:</b>            | <a href="#">ACB76503</a>  |
| <b>Molecular weight:</b>         | 44128.5 Da (theoretical)  |
|                                  | - (observed by SDS-PAGE)  |
|                                  | - (observed by mass spectrometry)   |
| <b>Biological function:</b>      | Hydrolysis of (1->4)- $\beta$ -D-xylans, to remove successive D-xylose residues from the non-reducing termini |
| <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:**

MNLP SLF PFF QLL L AT L A C A A A S A Q A P A P A A V A S T T A A R R P T G I V I V P S L Q Q P T G A R A P E E K D L A G Y L M V  
Y F K D Q T H S A Y F A I S R D G N T F T D V N G G D P V F D G A E L A E Q K G V R D P H I A R G P D G A F Y L A M T D L H I F G D R A G F  
R T T R W Q R P E E K Y G W G N N R A I V L M K S W D L I H W T H S D F R V D L A F P E L G D I D C A W A P E T T Y D P V A G K M M V Y F T  
I R Y G N K H A N I Y W S Y A N D A F T K L E T T P K M I P G I G G I D A D L T H V G D Q W H I F F V A D A K I R H G V S D G I V D G Y T V  
E P Q R I D P E T V S T E A P N L F K R L G T D S Y V L M Y D V Y G A R P N N M G F S E T E D F N S W R H L G R F N E G V M K G S N F E R P  
K H G A V I H L T A D E L Q T V A A H W K L E L A H E

**Literature:**

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