

Recombinant Enzyme Product Specification Sheet

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| Cat. No.: | PRO-E0048 |
| LOT: | 2009-0048 |
| Activity: | Exo-chitinase (putative) |
| Synonyms: | Chitinase; 1,4- β -poly-N-acetylglucosaminidase; chitodextrinase; poly- β -glucosaminidase |
| Nomenclature: | CAZy [GH18, glycoside hydrolase family 18, member of clan GH-K] |
| Source organism: | <i>Streptomyces coelicolor</i> A3(2) |
| Enzyme Commission No.: | 3.2.1.- |
| Activity: | - |
| Specific activity: | - |
| Purity: | - |
| Form and storage: | - |
| pH optimum: | - |
| Temperature optimum: | - |
| [Protein]: | - |
| Sequence length: | 570 amino acids (view sequence) |
| Accession No.: | O86826 , NP_629802.1 , SCOE100226:SCO5673-MON |
| Molecular weight: | 63688.4 Da (theoretical) |
| | - (observed by SDS-PAGE) |
| | - (observed by mass spectrometry) |
| Biological function: | Hydrolysis of N-acetyl- β -D-glucosaminide (1- \rightarrow 4)- β -linkages in chitin and chitodextrins, yielding chitobiose as the predominant reaction product |
| Potential application(s): | Biocatalysis , Biochemistry , Carbohydrate research |
| Comments: | - |
| Usage: | - |
| Assay: | - |

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

Primary sequence:

ADADLARNGGFESALDGWTC TAGTTVTS PVHGGTSALKATPAGADNARCSQTVSVKPDSPYTL SGYVRGTYVYL
ASGTGTTDVSTWAQSAPDWQQLTTTFR TGPSTTRVTIYTHGWYGTGAYHADDISLTGPGGETQQPPAVPGGLKTG
SVTSSAVALSWSPVPGATGYAVYRDGAKVSTVTGTSTTVTGLTPSTAYSFQVTAVNDAGESARSATVTATTAQRP
DDGGSSDLPAHALVGYLHASFANGSGYTRMADV PDSWDVIDLAFGEPTSVTSGDIRFERCPVAECPNVESDAEF
KAAIKAKQAAGKKVLSIGGQNGQVQLTSTAARDK FVSSVSAI IDEYGLDGLDIDFEGHSLSLNADDTDFKNPKT
PVIIVNLVSAVKTLKAKYGDGFVLTMAPETFFVQLGYQYYGTGKWWGQDPRAGAYLPVIHALRDDLTLLHVQDYNS
GSIMGLDNQYHSMGGADFHIAMTDMLLTGFPVAGDANNVFPPLRPDQVAIGMPASTQAGNGHVSPA EVT KALNCL
TKKTD CGSYATHGTWPD L RGLMTWS INWDRYSNWEFQKNF DAYFG

Literature:

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