

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0414
LOT:	2009-0414
Activity:	Pullulanase
Synonyms:	Pullulan 6- α -glucanohydrolase; limit dextrinase (erroneous); amylopectin 6-glucanohydrolase; bacterial debranching enzyme; debranching enzyme; α -dextrin endo-1,6- α -glucosidase; R-enzyme; pullulan α -1,6-glucanohydrolase
Nomenclature:	CAZy [GH13 subf14, glycoside hydrolase family 13 subfamily 14, member of clan GH-H] , BF3100
Source organism:	<i>Bacteroides fragilis</i> NCTC 9343
Enzyme Commission No.:	3.2.1.41
Activity:	-
Specific activity:	-
Purity:	-
Form and Storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-
Sequence length:	647 amino acids (view sequence)
Accession No.:	Q5LAS8_BACFN , YP_212713.1 , CAH08795.1 , BFRA272559:BF3100-MON
Molecular weight:	75996.7 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Hydrolysis of (1 \rightarrow 6)- α -D-glucosidic linkages in pullulan, amylopectin and glycogen, and in the α - and β -limit dextrans of amylopectin and glycogen
Potential application(s):	Carbohydrate research , fundamental research
Comments:	-

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

Usage: -

Assay: -

Primary sequence:

CTPAKKEYASYELYPVRSGLTEMEYSPESTKFTLWAPTADDEVRLMLFDSGEGGHAYETIPMEPGEEGTWMATVR
KDLMGKFYTFNVKVNKWMGDTPGINAKAVGVNGKRAAI INLKSTDPQGWETDQRPLKSPADAI IYEMHHRDFS
VDSTSGIQHKGKFLALTEHGTMNSAKLLTGIDHLIELGVTHVHLLPSYDYASVDETKLDENKYNWGYDPQNYNVP
DGSYATDPYDPAVRIREFKQMVQALHKAGIRVVLVYVNHNTYNTDGSNFERTVPGYFYRQKPDGSLANGSACGNE
TASNRPMRKYMIESVLHWIREYHIDGFRFDLMGIHDIETMNEIRKAVSAVDPSII IYEGEWAAEAPQYPGDSLA
MKVNTCKMPGIAAFSDEMRDALRGPFNHNKGAFLAGIPGEEESIKFGIVGAVSHQPVNNDVNSKAPWASQPT
QMISYVVSCHDDMCLVDRLKSSIPGITPEQLVRLDKLAQTAVLTSQGIPIFYAGEEVMRDKKGVHNSFESPDSINA
IDWNRKTTHEDEVFAYYKRLISIRKAHPAFRMDAEMVRKYLEFLPVDGGNLVAFRLKDRANGDTWDNI IVALNAR
SVPAKLAIPEGKYTVVCRDGVIDERGLGSLYGPEVTVPAQSALIIHQ

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