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[full product listing at www.prozomix.com/products/listing]

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0418
LOT:	2009-0418
Activity:	Maltooligosyl trehalose trehalohydrolase
Synonyms:	Malto-oligosyltrehalose trehalohydrolase; 4-α-D-((1->4)-α-D-glucano)trehalose trehalohydrolase
Nomenclature:	CAZy [GH13 subf10, glycoside hydrolase family 13 subfamily 10, member of clan GH-H]
Source organism:	*Bradyrhizobium sp.* BTAi1
Enzyme Commission No.:	3.2.1.141
Activity:	-
Specific activity:	-
Purity:	> 95 % as judged by SDS-PAGE
Form and storage:	Supplied in 3.2 M ammonium sulphate, store at 4°C (shipped at room temperature)
pH optimum:	-
Temperature optimum:	-
[Protein]:	10 mg/mL
Sequence length:	589 amino acids (view sequence)
Accession No.:	A5EPZ9, YP_001242149.1
Molecular weight:	69634.7 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Hydrolysis of (1->4)-α-D-glucosidic linkage in 4-α-D-((1->4)-α-D-glucanosyl)(n) trehalose to yield trehalose and (1->4)-α-D-glucan
Potential application(s):	Carbohydrate research, fundamental research
Comments:	-
Usage:	Agitate vial sufficiently to fully homogenise enzyme precipitate before use
Assay:	-

NOTE: this product has been produced and is awaiting assay. It is thus currently available for purchase by the mg only. If you have a query, please contact us (technical@prozomix.com)

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Primary sequence:

MSGRQFGPRLSEHGTSFRLWAPAARRVDLVLDDGRREMQRRDGGWYALDAPGIGAGTRYKFRIDDELDVPDPGSD
FQPEDVSGPSEVIDHCAYVWRAKDWRGRPWQDAVFLESHVGTFTEEGTYRAMDKLDHLVETGITALELMPLADFA
GRRNWGYDGVLLYAPDSVYGRPDDLRALIDEAHLRGLMVFLDVVYNHFGPEGNYIARYAPTFFTDTHTPWGSAID
YRRPEVRAFAIENALHWLTDYRFDGLRFDVNHILSNEGEIPMLHELSAAVGRLVAQTGRHIHLVLENGDNRASML
DAAEEPPRGKFRAQWNDDYHHVWHVMLTGETTGYYGDYQDNPRGGLARALASGFVYQGEQAAFWGGIRRGEPSGH
LAPGAFNFLQNHDQIGNRVFGDRLEALAPPEGIAAALAVTLLAPTVPMLYMGEEWGSKQPFPFFCDFQGDLAHAV
RKGRRKEYEWAYAKYGDEVPDPLDVETFRSAIIDWDARNEPPGRERLALVRDLLAVRHKVAPLLPGATFGAADVT
DEGRLTAHWTMGDGSQLRLLANVSDKEIAGPSNDVNGTPIWGGTPGDRLPPWSVYWSIGG

Literature:

1. Giraud *et al.* (2007) *Science* **316**, 1307-1312