Prozomix Limited, Station Court, Haltwhistle,
Northumberland, NE49 9HN, UK.
Tel: +44 (0) 1434 400455
Fax: +44 (0) 1434 322822
info@prozomix.com
technical@prozomix.com
www.prozomix.com

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

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0402
LOT:	2009-0402
Activity:	Glucan 1,4-α-maltohydrolase
Synonyms:	Maltogenic α-amylase; 1,4-α-D-glucan α-maltohydrolase; 4-α-D-glucan α-maltohydrolase
Nomenclature:	CAZy [GH13 subf20, glycoside hydrolase family 13 subfamily 20, member of clan GH-H], YvdF, BSU34620
Source organism:	*Bacillus subtilis* subsp. *subtilis* str. 168
Enzyme Commission No.:	3.2.1.133
Activity:	-
Specific activity:	-
Purity:	-
Form and storage:	-
pH optimum:	-
Temperature optimum:	-
[Protein]:	-

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

Sequence length:	589 amino acids (view sequence)	
Accession No.:	O06988, NP_391342.1, CAB08035.1, BSUB224308:BSU3459-MON	
Molecular weight:	72673.8 Da	(theoretical)
	-	(observed by SDS-PAGE)
	-	(observed by mass spectrometry)
Biological function:	Hydrolysis of (1→4)-α-D-glucosidic linkages in polysaccharides so as to remove successive α-maltose residues from the non-reducing ends of the chains	
Potential application(s):	Carbohydrate research, fundamental research	
Comments:	98 % identical to the dimeric intracellular maltogenic amylase from *Bacillus subtilis* SUH4-2 (Ref. 1)	
Usage:	-	
Assay:	-	

Prozomix Limited, Station Court, Haltwhistle,
Northumberland, NE49 9HN, UK.
Tel: +44 (0) 1434 400455
Fax: +44 (0) 1434 322822
info@prozomix.com
technical@prozomix.com
www.prozomix.com

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

Primary sequence:

MMEYAAIHHQPFSTDAYSYDGRTVHIKIRTKKGDADHIRFIWGDPYEYNDGKWSANEQPMRKIAATEMHDYWFAE
VVPPFRRLQYAFVVTDDHEDIFFGSSGVCPYNEKTLETIHYYFKFPFVHEADTFQAPEWVKSTVWYQIFPERFAN
GREDLSPKNALPWGSKDPDVNDFFGGDLQGIVDKLDYLEDLGVNGIYLTPIFSAPSNHKYDTLDYFSIDPHFGDP
ELFRTLVSQLHQRGMRIMLDAVFNHIGSASPQWQDVVKNGDQSRYKDWFHIHSFPVTDDNYDRFAFTADMPKLNT
ANPEVQKYLLDIALYWIREFDIDGWRLDVANEVDHVFWKTFRQAVSTEKPDVYILGEIWHSAEPWLRGDEFHAAM
NYPFTEPMIEYFADQTISASRMAHRVNAHLMNGMKQANEVMFNLLDSHDTKRLLTRCRNDEKKARALLAFMFAQT
GSPCIYYGTEIGLNGENDPLCRKCMVWEKEKQNQDMLQFMKRLIALRKQENTLLTEGHLEWNLLDDKNDFISFSR
TLDEKILIYFFNQGNVVQHVSLRELNIDRNKKICDAWTEQPLQHHDVIAVQPGEFLILSAAAPV

Literature:

1. Cho *et al.* (2000) *Biochim. Biophys. Acta* **1478**, 333-340