

Usage:

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www.prozomix.com

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

Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0086
LOT:	2008-0086
Activity:	Trehalose-phosphatase
Synonyms:	Trehalose-6-phosphate phosphatase, trehalose 6-phosphatase, trehalose 6-phosphate phosphatase, trehalose-6-phosphate phosphohydrolase, TPP
Nomenclature:	HAD17, OtsB, ECK1896, b1897, JW1886, EG11752
Source organism:	Escherichia coli K-12 (MG1655)
Enzyme Commission No.:	3.1.3.12
Activity:	-
Specific activity:	-
Purity:	- NOTE: this product is currently under
Form and storage:	development. If you wish to prioritise
pH optimum:	the production of this enzyme, please follow this link
Temperature optimum:	-
[Protein]:	-)
Sequence length:	266 amino acids (view sequence)
Accession No.:	P31678
Molecular weight:	31338.6 Da (theoretical)
	- (observed by SDS-PAGE)
	- (observed by mass spectrometry)
Biological function:	Catalyses the dephosphorylation of carbamoyl-phosphate, imidodiphosphate and exhibits a wide specificity for numerous natural sugar phosphates, most notably α,α -trehalose-6-phosphate, but also (in order of increasing specific activity): fructose-6-phosphate, fructose-1-phosphate, glucose-1-phosphate, mannose-6-phosphate 2-deoxyglucose-6-phosphate and glucose-6-phosphate
Potential application(s):	Biocatalysis, Biochemistry
Comments:	Belongs to the HAD-like hydrolase superfamily



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Assay:

Primary sequence:

MTEPLTETPELSAKYAWFFDLDGTLAEIKPHPDQVVVPDNILQGLQLLATASDGALALIS GRSMVELDALAKPYRFPLAGVHGAERRDINGKTHIVHLPDAIARDISVQLHTVIAQYPGA ELEAKGMAFALHYRQAPQHEDALMTLAQRITQIWPQMALQQGKCVVEIKPRGTSKGEAIA AFMQEAPFIGRTPVFLGDDLTDESGFAVVNRLGGMSVKIGTGATQASWRLAGVPDVWSWL EMITTALQQKRENNRSDDYESFSRSI

Literature: 1. Kuznetsova et al. (2006) J. Biol. Chem. 281, 36149-36161