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Recombinant Enzyme Product Specification Sheet

Cat. No.:	PRO-E0079
LOT:	2008-0079
Activity:	Phosphoserine phosphatase
Synonyms:	O-Phosphoserine phosphohydrolase, PSP, PSPase
Nomenclature:	HAD9, SerB, ECK4380, b4388, JW4351, EG10945
Source organism:	*Escherichia coli K-12 (MG1655)*
Enzyme Commission No.:	3.1.3.3
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, please follow this link

Sequence length:	322 amino acids (view sequence)	
Accession No.:	P0AGB0	
Molecular weight:	37206.0 Da	(theoretical)
	-	(observed by SDS-PAGE)
	-	(observed by mass spectrometry)
Biological function:	Catalyses the dephosphorylation of *p*NP-phosphate, acetyl-phosphate, carbamoyl-phosphate, imido-diphosphate and various natural nucleotide phosphates and phosphorylated amino acids, most notably phosphoserine, but also (in order of increasing specific activity): CMP, AMP, GMP, IMP, TMP, dUMP, UMP, XMP and phosphothreonine	
Potential application(s):	Biocatalysis, Biochemistry	
Comments:	Belongs to the HAD-like hydrolase superfamily	
Usage:	-	
Assay:	-	

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Primary sequence:

MPNITWCDLPEDVSLWPGLPLSLSGDEVMPLDYHAGRSGWLLYGRGLDKQRLTQYQSKLG
AAMVIVAAWCVEDYQVIRLAGSLTARATRLAHEAQLDVAPLGKIPHLRTPGLLVMDMDST
AIQIECIDEIAKLAGTGEMVAEVTERAMRGELDFTASLRSRVATLKGADANILQQVRENL
PLMPGLTQLVLKLETLGWKVAIASGGFTFFAEYLRDKLRLTAVVANELEIMDGKFTGNVI
GDIVDAQYKAKTLTRLAQEYEIPLAQTVAIGDGANDLPMIKAAGLGIAYHAKPKVNEKAE
VTIRHADLMGVFCILSGSLNQK

Literature:

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