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Product Data Sheet

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PSP Protein, Human (His)

Cat. No.:	HY-P71241
Synonyms:	Phosphoserine Phosphatase; PSP; PSPase; L-3-Phosphoserine Phosphatase; O-Phosphoserine Phosphohydrolase; PSPH
Species:	Human
Source:	E. coli
Accession:	P78330 (M1-E225)
Gene ID:	5723
Molecular Weight:	25-30 kDa

PROPERTIES	
AA Sequence	MVSHSELRKLFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKAALTERLALIQPSREQVQRLIAEQPPHLTPGIRELVSRLQERNVQVFLISGGFRSIVEHVASKLNIPATNVFANRLKFYFNGEYAGFDETQPTAESGGKGKVIKLLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVKDNAKWYITDFVELLGELEE
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 4 M Urea, 5 mM EDTA, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background

Phosphoserine phosphatase (PSP) is responsible for catalyzing the final irreversible step in the biosynthesis of L-serine from carbohydrates, involving the dephosphorylation of O-phospho-L-serine to L-serine. This enzymatic activity is pivotal for various cellular processes, as L-serine serves as a precursor for protein synthesis, the generation of other amino acids, nucleotide metabolism, and glutathione synthesis. Additionally, L-serine can undergo racemization to form D-serine, which functions as a neuromodulator. PSP's role in regulating the availability of L-serine underscores its significance in diverse

Caution: Product has not been fully validated for medical applications. For research use only.

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