

Recombinant Full Length Human PSPH protein, His-tagged

Cat. No. PSPH-202H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PSPH(Met1-Glu225) fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-225 a.a.
Description	Phosphoserine phosphatase (PSP) is an enzyme that belongs to the serB family. PSPH catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. The reaction mechanism proceeds via the formation of a phosphoryl-enzyme intermediates. Deficiency of this protein is thought to be linked to Williams syndrome. A disorder that results in pre- and postnatal growth retardation, moderate psychomotor retardation and facial features suggestive of Williams syndrome.
Form	Liquid
Purity	Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.
Storage	Store at < -20 centigrade, stable for 6 months after receipt.Please minimize freeze-thaw cycles.

GENE INFORMATION

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Gene Name	PSPH phosphoserine phosphatase [Homo sapiens]
Official Symbol	PSPH
Synonyms	PSPH; phosphoserine phosphatase; PSP; PSPase; L-3-phosphoserine phosphatase; O-phosphoserine phosphohydrolase; PSPHD;
Gene ID	5723
mRNA Refseq	NM_004577
Protein Refseq	NP_004568
MIM	172480
UniProt ID	P78330
Chromosome Location	7p11.2
Pathway	Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Serine biosynthesis, organism-specific biosystem;
Function	calcium ion binding; hydrolase activity; magnesium ion binding; phosphoserine phosphatase activity; phosphoserine phosphatase activity; protein homodimerization activity;