

## Product datasheet for PH309090

### Phosphoserine phosphatase (PSPH) (NM\_004577) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSPH MS Standard C13 and N15-labeled recombinant protein (NP_004568)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209090
Predicted MW:	25 kDa
Protein Sequence:	>RC209090 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)  MVSHSELRKLIFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKAALTERLALIQ PSREQVQRLIAEQPHLTPGIRELVSRQLQERNVQVFLISGGFRSIVEHVASKLNIPATNVFANRLKFYFN GEYAGFDETQPTAESGGKGVKIKLLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVKDNAK WYITDFVELLGELEE  <span style="color: red;">TR</span> TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004568</a>
RefSeq Size:	2142
RefSeq ORF:	675
Synonyms:	PSP; PSPHD
Locus ID:	5723
UniProt ID:	<a href="#">P78330</a> , <a href="#">A0A024RDL3</a>



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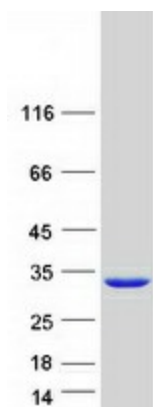
**Cytogenetics:** 7p11.2

**Summary:** The protein encoded by this gene belongs to a subfamily of the phosphotransferases. This encoded enzyme is responsible for the third and last step in L-serine formation. It catalyzes magnesium-dependent hydrolysis of L-phosphoserine and is also involved in an exchange reaction between L-serine and L-phosphoserine. Deficiency of this protein is thought to be linked to Williams syndrome. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, Phosphatase

**Protein Pathways:** Glycine, serine and threonine metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified PSPH protein (Cat# [TP309090]). The protein was produced from HEK293T cells transfected with PSPH cDNA clone (Cat# [RC209090]) using MegaTran 2.0 (Cat# [TT210002]).