

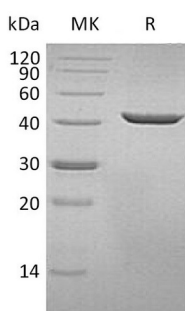
**Product Name: Recombinant Human SEPHS1 (C-6His)**  
**Catalog #: PHH1479**



## Summary

<b>Name</b>	Selenophosphate synthase 1/SEPHS1
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Selenophosphate Synthase is produced by our Mammalian expression system and the target gene encoding Met1-Ser392 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	P49903
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	43.9 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 25mM Tris-HCl, 100mM glycine, 10% Glycerol, pH 7.3.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image



## Background

<b>Alternative Names</b>	Selenide; water dikinase 1;Selenium donor protein 1;Selenophosphate synthase 1;SEPHS1;SELD; SPS; SPS1
<b>Background</b>	Selenophosphate synthetase 1 (SEPHS1) belongs to the selenophosphate synthase 1 family, Class II subfamily. It has four different isoforms by alternative splicing.

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Isoform 1 and isoform 2 are gradually expressed during the cell cycle until G2/M phase and then decreased, which Isoform 3 is gradually expressed during the cell cycle until S phase and then decreased. SEPHS1 can be activated by phosphate ions and by potassium ions. It can synthesize synthesizes selenophosphate from selenide and ATP. Selenophosphate is the selenium donor used to synthesize selenocysteine, which is co-translationally incorporated into selenoproteins at in-frame UGA codons.

### **Note**

For Research Use Only , Not for Diagnostic Use.