

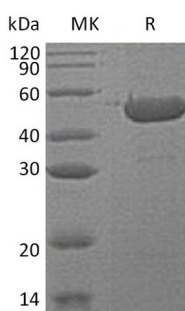
**Product Name: Recombinant Human SHPK (C-6His)**  
**Catalog #: PHH1478**



## Summary

<b>Name</b>	Sedoheptulokinase/SHPK/CARKL
<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 Sedoheptulokinase is produced by our Mammalian expression system and the target gene encoding Met1-Ser478 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	AAH20543.1
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	52.5 KDa
<b>Formulation</b>	Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 500mM NaCl, 10% Glycerol, 3mM DTT, pH7.4.
<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

**Alternative Names** Sedoheptulokinase; SHK; Carbohydrate kinase-like protein; SHPK; CARKL

**Background** Sedoheptulokinase (SHPK) belongs to the FGGY kinase family, and is mainly located in cytoplasm. SHPK is strongly expressed in liver, kidney and pancreas. It is

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expressed at lower levels in placenta and heart, and very weakly expressed in lung and brain. SHPK catalyzes the chemical reaction:  $\text{ATP} + \text{sedoheptulose} = \text{ADP} + \text{sedoheptulose 7-phosphate}$ . It can transform sedoheptulose to sedoheptulose 7-phosphate in the condition of ATP, and acts as a modulator of macrophage activation through control of glucose metabolism. In addition, It also can be down-regulated by LPS.

### **Note**

For Research Use Only , Not for Diagnostic Use.