

## Recombinant Human SPHK1/Sphingosine Kinase 1 Protein

Catalog Number: PKSH030315

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

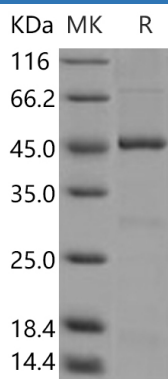
### Description

<b>Species</b>	Human
<b>Source</b>	Baculovirus-Insect Cells-derived Human SPHK1/Sphingosine Kinase 1 protein Met 1-Leu 384
<b>Calculated MW</b>	42.7 kDa
<b>Observed MW</b>	46 kDa
<b>Accession</b>	Q9NYA1-1
<b>Bio-activity</b>	The specific activity was determined to be 1028 nmol/min/mg using Sphingosine Kinase Substrate as substrate.

### Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as sterile solution of 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0

### Data



> 85 % as determined by reducing SDS-PAGE.

### Background

SPHK1; also known as sphingosine Kinase 1; catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P). S1P exhibits a broad spectrum of biological activities including cell proliferation; survival; migration; cytoskeletal organization; and morphogenesis. It is a ligand for cell surface G protein-coupled receptors. SPHK 1 is a potential therapeutic target for the control of cancer and inflammation. SPHK1 plays a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory; antiapoptotic; and immune processes.

### For Research Use Only