# Recombinant Human SPHK1/Sphingosine Kinase 1 Protein (His&GST Tag)

**Catalog Number: PKSH030316**

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

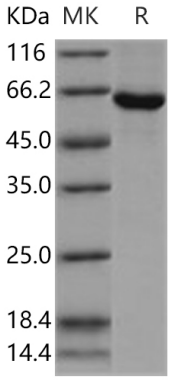
## Description

| | |
|---|---|
| **Species** | Human |
| **Source** | Baculovirus-Insect Cells-derived Human SPHK1/Sphingosine Kinase 1 protein Met 1-Leu 384, with an N-terminal His & GST |
| **Calculated MW** | 70.3 kDa |
| **Observed MW** | 64 kDa |
| **Accession** | Q9NYA1-1 |
| **Bio-activity** | Not validated for activity |

## Properties

| | |
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Concentration** | Subject to label value. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles. |
| **Shipping** | 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. |
| **Formulation** | Supplied as sterile solution of 20mM Tris, 500mM NaCl, 3mM DTT, 10% glycerol, pH 8.0 |

## Data




> 95 % 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.


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