



Recombinant Protein Technical Manual
Recombinant Human SPHK1/Sphingosine Kinase 1
Protein (Active)
RPES0635

Product Data:

Product SKU: RPES0635

Size: 20µg

Species: Human

Expression host: Baculovirus-Insect Cells

Uniprot: Q9NYA1

Protein Information:

Molecular Mass: 42.7 kDa

AP Molecular Mass: 46 kDa

Tag:

Bio-activity: The specific activity was determined to be 1028 nmol/min/mg using Sphingosine Kinase Substrate as substrate.

Purity: > 85 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: SPHK;SPHK1;SPK

Immunogen Information:

Sequence: Met 1-Leu 384

Background:

SPHK1, also known as sphingosine Kinase 1, catalyzes the phosphorylation of sphingosine to form sphingosine-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.