

Recombinant Human SPHK1/Sphingosine Kinase 1 Protein

Catalog No. PKSH030315

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

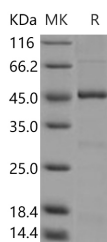
Description

Synonyms	SPHK;SPHK1;SPK
Species	Human
Expression Host	Baculovirus-Insect Cells
Sequence	Met 1-Leu 384
Accession	Q9NYA1-1
Calculated Molecular Weight	42.7 kDa
Observed molecular weight	46 kDa
Tag	None
Bioactivity	The specific activity was determined to be 1028 nmol/min/mg using Sphingosine Kinase Substrate as substrate.

Properties

Purity	> 85 % as determined by reducing SDS-PAGE.
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, 10% glycerol, pH 8.0
Reconstitution	Not Applicable

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

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processes.