

Recombinant Human SPHK1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SPHK1-4199H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SPHK1 MS Standard C13 and N15-labeled recombinant protein (NP_068807) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (S1P), a lipid mediator with both intra- and extracellular functions. Intracellularly, S1P regulates proliferation and survival, and extracellularly, it is a ligand for cell surface G protein-coupled receptors. This protein, and its product S1P, play a key role in TNF-alpha signaling and the NF-kappa-B activation pathway important in inflammatory, antiapoptotic, and immune processes. Phosphorylation of this protein alters its catalytic activity and promotes its translocation to the plasma membrane. Alternative splicing results in multiple transcript variants encoding different isoforms.
Molecular Mass	43.9 kDa
AA Sequence	MDPVVGCGRGLFGFVFSAGGPRGVLPRPCRVLVLLNPRGGKGKALQLFRSHVQPL LAEAEISFTLMLTERRNHARELVRSEELGRWDALVVMMSGDGLMHEVVNGLMERPD WETAIQKPLCSLPAGSGNALAASLNHYAGYEQVTNEDLLTNCTLLLCRLLSPMNL SLHTASGLRLFSVLSLAWGFIADVLDLESEKYRRLGEMRFTLGTFRLAALRTYRGRL

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AYLPVGRVGSKTPASPVVVQQGPVDAHLVPLEEPVPSHWTVPDEDFVLVLALLHS
 HLGSEMFAAPMGRCAAGVMHLFYVRAGVSRAMLLRLFLAMEKGRHMEYECPLYVY
 VPVVAFRLEPKDGKGVFAVDGELMVSEAVQGQVHPNYFWMVSGCVEPPPSWKPKQ
 QMPPEEPLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name SPHK1 sphingosine kinase 1 [Homo sapiens (human)]

Official Symbol SPHK1

Synonyms SPHK1; sphingosine kinase 1; SPHK; SK 1; SPK 1;

Gene ID 8877

mRNA Refseq NM_021972

Protein Refseq NP_068807

MIM 603730

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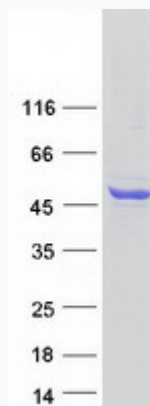
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UniProt ID

Q9NYA1

SDS-PAGE

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