

Product datasheet for PH303398

SPHK1 (NM_021972) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SPHK1 MS Standard C13 and N15-labeled recombinant protein (NP_068807)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203398
Predicted MW:	43.9 kDa
Protein Sequence:	>RC203398 protein sequence Red=Cloning site Green=Tags(s)
	MDPVVGCGRGLFGVFVSAGGPRGVLPRPCRVLVLLNPRGGKALKQLFRSHVQPLLAEEISFTLMLTER RNHARELVRSEELGRWDALVVMGSDGLMHEVVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHYAGY EQVTNEDLLTNCTLLLCRRLSPMNLSSLHTASGLRFLSVLSLAWGFIADVLESEKYRRLGEMRFTLGT FLRLAALRTYRGLAYLPVGRVGSKTPASPVVVQGPVDAHLVPLEEPVPSHWTVVPDEDFVLVLLALLHS HLGSEMF AAPMGRCAAGVMHLFVYRAGVSRAMLLRLFLAMEKGRHMEYECPYLVYVPVAVFRLEPKDGKG VFAVDGELMVSEAVQGQVHPNYFWMVSGCVEPPPSWKPQQMPPEEPL
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_068807</u>
RefSeq Size:	1881
RefSeq ORF:	1194
Synonyms:	SPHK
Locus ID:	8877



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UniProt ID: [Q9NYA1](#)

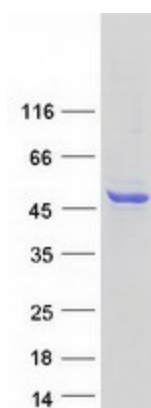
Cytogenetics: 17q25.1

Summary: 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. [provided by RefSeq, Sep 2017]

Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway

Product images:



Coomassie blue staining of purified SPHK1 protein (Cat# [TP303398]). The protein was produced from HEK293T cells transfected with SPHK1 cDNA clone (Cat# [RC203398]) using MegaTran 2.0 (Cat# [TT210002]).