

Product datasheet for **TP303398**

SPHK1 (NM_021972) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human sphingosine kinase 1 (SPHK1), transcript variant 1, 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC203398 protein sequence
Red=Cloning site **Green**=Tags(s)

MDPVVGCGRGLFGFVFSAGGPRGVLPRPCRVLVLLNPRGGKGGKALQLFRSHVQPLLAEEISFTLMLTER
RNHARELVRSEELGRWDALVVMMSGDGLMHEVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHYAGY
EQVTNEDLLTNCTLLLCRLLSPMNLSSLHTASGLRFLFSVLSLAWGFIADVLESEKYRRLGEMRFTLGT
FLRLAALRTYRGLAYLPVGRVGSKTPASPVVQQGPVDAHLVPLEEPVPSHWTVPDEDFVLVLLALLHS
HLGSEMFAAPMGRCAAGVMHLFYVRAGVSRAMLLRFLAMEKGRHMEYECPLYVYPVVAFRLEPKDGKG
VFAVDGELMVSEAVQGVHPNYFWMVSGCVEPPPSWKPPQMPPEEPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 43.8 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_068807](#)

Locus ID: 8877



[View online »](#)

UniProt ID: [Q9NYA1](#)

RefSeq Size: 1881

Cytogenetics: 17q25.1

RefSeq ORF: 1194

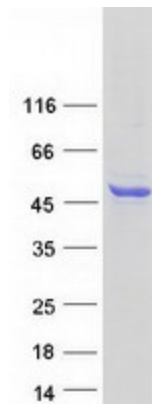
Synonyms: SPHK

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]).