

## Product datasheet for **TP303398M**

### SPHK1 (NM\_021972) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human sphingosine kinase 1 (SPHK1), transcript variant 1, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone** >RC203398 protein sequence

**or AA Sequence:** **Red**=Cloning site **Green**=Tags(s)

MDPVVGCGRGLFGFVFSAGGPRGVLPRPCRVLVLLNPRGGKGGKALQLFRSHVQPLLAEEAISFTLMLTER  
RNHARELVRSEELGRWDALVVMMSGDGLMHEVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHYAGY  
EQVTNEDLLTNCTLLLRRLLSPMNLSSLHTASGLRFLFSVLSLAWGFIADVDLESEKYRRLGEMRFTLGT  
FLRLAALRTYRGLAYLPVGRVGSKTPASPVVQQGPVDAHLVPLEEPVPSHWTVPDEDFVLVLLALLHS  
HLGSEMFAAPMGRCAAGVMHLFYVRAGVSRAMLLRFLAMEKGRHMEYECPLYVYPVVAFRLEPKDGKG  
VFAVDGELMVSEAVQGVHPNYFWMVSGCVEPPPSWKPKQMPPEEPL

**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

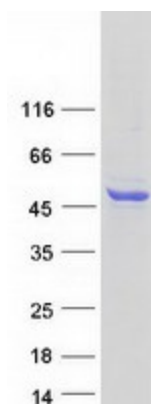
Synonyms: SPHK

**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]).