

## Product datasheet for **TP303019M**

### SPHK2 (NM\_020126) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sphingosine kinase 2 (SPHK2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203019 representing NM_020126 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MNGHLEAEEQQDQRPDQELTGSWGHGPRSTLVRAKAMAPPPPLAASTPLLHGEFGSYPARGPRFALTLT  
SQALHIQRLRPKPEARPRGGLVPLAEVSGCCTLRSRSPSDSAAYFCIYTPRGRRGARRRATRTFRADGA  
ATYEENRAEAQRWATALTCLLRGLPLPGDGEITPDLLPRPPRLLLLNVNPFGGRLAWQWCKNHVLP  
MISEAGLSFNLIQTERQNHARELVQGLSLSEWDGIVTVSGDGLLHEVLNGLLDRPDWEEAVKMPV  
GILPCGSGNALAGAVNQHGFEFALGLDLLNCSLLLCRGGGHPDLLSVTLASGSRCSFSLVAVWGFVSDV  
DIQSERFRALGSARFTLGTVLGLATLHTYRGRLSYLPATVEPASPTPAHSLPRAKSELTLTPDPAPP  
MAHSPHRSVSDLPLPLQPALASPGSPEPLPILSLNNGGPELAGDWGGAGDAPLSPDPLSSPPGSP  
KAALHSPVSEGA PVIPSSGLPLPTPDARVGASTCGPPDHLLPPLGTPLPDWTLEGDFVLM  
LAISPSHLGADLVAAPHARFDDGLVHLCWVRSGISRAALLRFLAMERGSFSLGCPQLGYAAARA  
FRLEPLTPRGVLTVDGEQVEYGPLQAQMHPGIGITLLTGPPGCPGREGP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	69 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.



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**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\\_064511](#)

**Locus ID:** 56848

**UniProt ID:** [Q9NRA0](#), [A0A024QZH5](#)

**RefSeq Size:** 3012

**Cytogenetics:** 19q13.33

**RefSeq ORF:** 1962

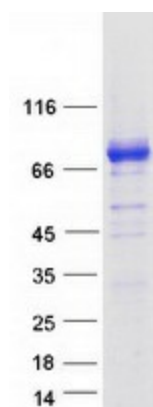
**Synonyms:** SK-2; SK 2; SPK-2; SPK 2

**Summary:** This gene encodes one of two sphingosine kinase isozymes that catalyze the phosphorylation of sphingosine into sphingosine 1-phosphate. Sphingosine 1-phosphate mediates many cellular processes including migration, proliferation and apoptosis, and also plays a role in several types of cancer by promoting angiogenesis and tumorigenesis. The encoded protein may play a role in breast cancer proliferation and chemoresistance. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2011]

**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 SPHK2 protein (Cat# [TP303019]). The protein was produced from HEK293T cells transfected with SPHK2 cDNA clone (Cat# [RC203019]) using MegaTran 2.0 (Cat# [TT210002]).