

## Product datasheet for PH303019

### SPHK2 (NM\_020126) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SPHK2 MS Standard C13 and N15-labeled recombinant protein (NP_064511)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203019
Predicted MW:	69 kDa
Protein Sequence:	>RC203019 representing NM_020126 Red=Cloning site Green=Tags(s)

MNGHLEAEEQQDQRPDQELTGSWGHGPRSTLVRAKAMAPPPPLAASTPLLHGEFGSYPARGPRFALTLT  
SQALHIQRLRPKPEARPRGGLVPLAEVSGCCTLRSRSPSDSAAYFCIYTYPRGRRGARRRTRTFRADGA  
ATYEENRAEAQRWATALTCLLRGLPLPGDGEITPDLLPRPPRLLLL VNPFGGRGLAWQCKNHVLP MISE  
AGLSFNL IQTERQNHARELVQGLSLSEWDGIVTVSGDGLLHEVLNGLLDRPDWEEAVKMPVGI LPCGSGN  
ALAGAVNQHGFEFALGLDLLNCSLLL CRGGGHPDLLSVTLASGSRCSF LSVAWGFVSDVDIQSERF  
RALGSARFTLGTVLGLATLHTYRGRLSYLPATVEPASPTPAHSLPRAKSELTLTPDPAPMAHSP LHR SV  
SDLPLPLPQPALASPGSPEPLILSLNGGGPELAGDWGGAGDAPLSPDPLLSSPPGSPKAA LHSPVSEGA  
PVIPSSGLPLTPDARVGASTCGPPDHLPLPLGTPLPPDWVTLLEGDFVLM LAISPSHLGADLVAAPHAR  
FDDGLVHLCWVRSGISRAALLRFLAMERGS HFSLGCPQLGYAAARA FRLEPLTPRGVLTVDGEQVEYGP  
LQMQMHPGIGTLLTGP PGCPGREGP

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_064511</a>
RefSeq Size:	3012



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RefSeq ORF: 1962

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

Locus ID: 56848

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

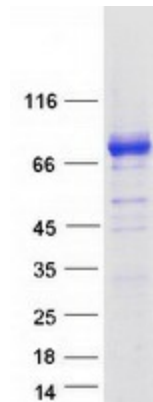
Cytogenetics: 19q13.33

**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]).