

Recombinant Full Length Human SPHK2 Protein, C-Flag-tagged

Cat. No. SPHK2-1677HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPHK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	69 kDa
AA Sequence	MNGHLEAEEQQDQRPDQELTGSWGHGPRSTLVRAKAMAPPPPLAASTPLLHGEF GYPARGPRFALTLT SQALHIQRLRPKPEARPRGGLVPLAEVSGCCTLRSRSPSDS AAYFCIYTYPRGRRGARRRATRTFRADGA ATYEENRAEAQRWATAALTCLLRGLPLP GDGEITPDLLPRPPRLLLLVNPFGGRGLAWQWCKNHVLP MISE AGLSFNLIQTERQ NHARELVQGLSLSEWDGIVTVSGDGLLHEVLNGLLDRPDWEEAVKMPVGILPCGSG

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N ALAGAVNQHGGFEPALGLDLLNCSLLCRGGGHPLDLLSVTLASGSRCSFSLSV
 AWGFVSDVDIQSERF RALGSARFTLGTVLGLATLHTYRGRLSYLPATVEPASPTPA
 HSLPRAKSELTLPDPAPPMASPLHRSV SDLPLPLPQPALASPGSPEPLPILSLNG
 GGPELAGDWGGAGDAPLSPDLLSSPPGSPKAALHSPVSEGA PVIPPSSGLPLPTP
 DARVGASTCGPPDHLLPPLGTPLPPDWVTLEGDFVLMLAISPSHLGADLVAAPHAR
 FDDGLVHLCWVRSGISRAALLRLFLAMERGSFSLGCPQLGYAAARAFLRLEPLTPR
 GVLTVDGEQVEYGP
 LQAQMHPGIGTLLTGPPGCPGREPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Calcium signaling pathway, Fc gamma R-mediated phagocytosis, Metabolic pathways, Sphingolipid metabolism, VEGF signaling pathway
Full Length	Full L.

GENE INFORMATION

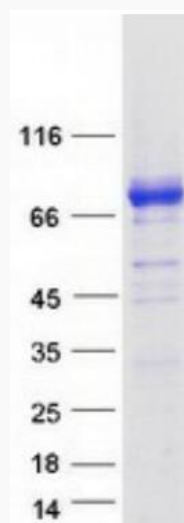
Gene Name [SPHK2 sphingosine kinase 2 \[Homo sapiens \(human\) \]](#)

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Official Symbol	SPHK2
Synonyms	SK 2; SK-2; SPK 2; SPK-2
Gene ID	56848
mRNA Refseq	NM_020126.5
Protein Refseq	NP_064511.2
MIM	607092
UniProt ID	Q9NRA0



Coomassie blue staining of purified SPHK2 protein.