

Active Recombinant Human SPHK2, His-tagged

Cat. No. SPHK2-30668TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Full length recombinant human SPHK2 with N-terminal His tag.
Species	Human
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.
Conjugation	HIS
Biological activity	Specific Activity : 20 U/ug. One unit defined as the amount of enzyme that will transfer 1nmol phosphate to Tyr substrate per minute at pH 7.4 and 30deg.C. Assay buffer : 50mM HEPES pH 7.4, 3mM MgCl ₂ , 3mM MnCl ₂ , 1mM DTT, 3um Na-orthovanadate, 0.1M ATP, 30
Form	Liquid
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequence Similarities	Contains 1 DAGKc domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	SPHK2 sphingosine kinase 2 [Homo sapiens]
Official Symbol	SPHK2
Synonyms	SPHK2; sphingosine kinase 2;
Gene ID	56848
mRNA Refseq	NM_001204158
Protein Refseq	NP_001191087
MIM	607092
Uniprot ID	Q9NRA0
Chromosome Location	19q13.2
Pathway	Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Ceramide signaling pathway, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem;
Function	ATP binding; D-erythro-sphingosine kinase activity; Ras GTPase binding;

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diacylglycerol kinase activity; nucleotide binding;

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