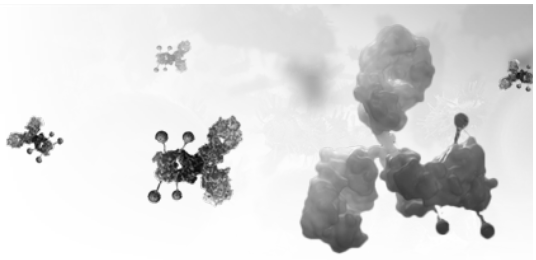

Human SPHK1 blocking peptide (DAG-P1905)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]
Specificity	Widely expressed with highest levels in adult liver, kidney, heart and skeletal muscle.
Conjugate	Unconjugated
Applications	BL
Sequence Similarities	Contains 1 DAGKc domain.
Format	Liquid
Buffer	Information available upon request.
Preservative	None
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SPHK1 sphingosine kinase 1 [Homo sapiens (human)]
Official Symbol	SPHK1

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Synonyms	SPHK1; sphingosine kinase 1; SPHK; SK 1; SPK 1;
Entrez Gene ID	8877
mRNA Refseq	NM_001142601.1
Protein Refseq	NP_001136073.1
UniProt ID	Q53ZR5
Chromosome Location	17q25.2
Pathway	Association of TriC/CCT with target proteins during biosynthesis, organism-specific biosystem; Calcium signaling pathway, organism-specific biosystem; Calcium signaling pathway, conserved biosystem; Chaperonin-mediated protein folding, organism-specific biosystem; Fc gamma R-mediated phagocytosis, organism-specific biosystem; Fc gamma R-mediated phagocytosis, conserved biosystem; Fc-epsilon receptor I signaling in mast cells, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; D-erythro-sphingosine kinase activity; DNA binding; NAD+ kinase activity; calmodulin binding; diacylglycerol kinase activity; magnesium ion binding; magnesium ion binding; protein binding; protein phosphatase 2A binding; sphinganine kinase ac

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