Active Recombinant Mouse Sphk1 protein, Met/His-tagged

Cat. No. Sphk1-526M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Sphk1(Glu2-Pro382) fused with an N-terminal Met and 6-His tag was expressed in Insect cells.
Species	Mouse
Source	Insect Cells
ProteinLength	2-382 a.a.
Form	Supplied as a 0.2 μm filtered solution in MES, NaCl, Glycerol and DTT.
Bio-activity	Measured by its ability to phosphorylate Omega-(7-nitro-2-1,3-benzoxadiazol-4-yl)-D-erythro-sphingosine (NBD-sphingosine). The specific activity is >2,500 pmol/min/μg.
Molecular Mass	Predicted Molecular Mass: 43 kDa;SDS-PAGE: 42 kDa, reducing conditions;
Endotoxin	<1.0 EU per 1 μg of the protein by the LAL method.
Purity	>70%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 μg per lane
Storage	Avoid repeated freeze-thaw cycles.6 months from date of receipt, -70 centigrade as supplied.3 months, -70 centigrade under sterile conditions after opening.

GENE INFORMATION

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

Gene Name	Sphk1 sphingosine kinase 1 [Mus musculus]
Official Symbol	Sphk1
Synonyms	SPHK1; sphingosine kinase 1; SK 1; SPK 1; Sk1; Spk1; 1110006G24Rik;
Gene ID	20698
mRNA Refseq	NM_001172472
Protein Refseq	NP_001165943
MIM	
UniProt ID	Q8CI15
Chromosome Location	11; 11 E2
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; Metabolic pathways, organism-specific biosystem;
Function	ATP binding; D-erythro-sphingosine kinase activity; DNA binding; calmodulin binding; calmodulin binding; diacylglycerol kinase activity; kinase activity; magnesium ion binding; nucleotide binding; protein phosphatase 2A binding; sphinganine kinase activity; sphinganine kinase activity; transferase activity;

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