

SPHK1 recombinant protein

SPHK1, Active

CATALOG # AAA73127	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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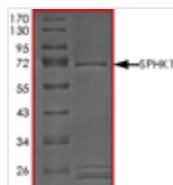
PRODUCT SYNONYMS

SPHK1; Active; SPHK1 recombinant protein

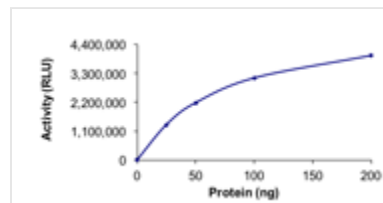
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full length
Sequence Length	1815
Applicable Applications for SPHK1 recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for SPHK1 recombinant protein	Description: Recombinant full-length human SPHK1 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: SPHK1 catalyzes the phosphorylation of sphingosine to form sphingosine-1-phosphate (SPP) which is a novel lipid messenger with both intracellular and extracellular functions. Various stimuli increase cellular levels of SPP by activation of SPHK1 (1). Competitive inhibitors of SPHK1 block formation of SPP and selectively inhibit cellular proliferation induced by a variety of factors. SPHK1/sphingosine-1-phosphate pathway contributes to colon carcinogenesis. SPHK1 plays a key role in the generation and release of proinflammatory mediators triggered by anaphylatoxins from human macrophages and also is involved in the process of immune cell motility (2).
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Product Categories/Family for SPHK1 recombinant protein	Enzymes; Active Lipid Kinases
References	1. Xia, P. et al: Sphingosine kinase interacts with TRAF2 and dissects tumor necrosis factor-alpha signaling. J. Biol. Chem. 2777996-8003, 2002. 2. Pappu, R. et al: Promotion of lymphocyte egress into blood and lymph by distinct sources of sphingosine-1-phosphate. Science 316295-298, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	33872079
NCBI GeneID	8877
Molecular Weight	~71 kDa
NCBI Official Full Name	Homo sapiens sphingosine kinase 1, mRNA
NCBI Official Synonym Full Names	sphingosine kinase 1
NCBI Official Symbol	SPHK1
NCBI Official Synonym Symbols	SPHK
NCBI Protein Information	sphingosine kinase 1
UniProt Protein Name	Sphingosine kinase 1
UniProt Gene Name	SPHK1
UniProt Synonym Gene Names	SPHK; SPK; SK 1; SPK 1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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 Online datasheet: <https://stage.aaabiotech.com/sphk1-recombinant-protein-sf9-insect-cells-using-baculovirus-kinase-assay/73127>