

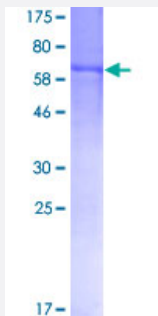
Full-Length

SPHK1 (Human) Recombinant Protein (P01)

Catalog # H00008877-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human SPHK1 full-length ORF (AAH08040, 1 a.a. - 384 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MDPAGGPRGVLPRPCRVLVLLNPRGGKGKALQLFRSHVQPLLAEEISFTLMLTERRNHARELV
RSEELGRWDALVVMMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPAGSGNALAASLNHYAGYE
QVTNEDLLTNCTLLLCRRLSPMNLLSLHTASGLRLFSVLSLAWGFIADVDLESEKYRRLGEMRFT
LGTFLLLAALRTYRGLAYLPVGRVGSKTPASPVVVQQGPVDAHLVPLEEPVPSHWTVPDEDF
VLVLALLHSHLGSEMFAAPMGRCAAGVMHLFYVRAGVSRAMLLRLFLAMEKGRHMEYECPLYVY
VPVVAFRLEPKDGKGVFAVDGELMVSEAVQQGVHPNYFWMVSGCVEPPPSWKPPQMPPPEE
PL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

67.98

Interspecies Antigen Sequence

Mouse (81); Rat (78)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — SPHK1

Entrez GeneID	8877
GeneBank Accession#	BC008040
Protein Accession#	AAH08040
Gene Name	SPHK1
Gene Alias	SPHK
Gene Description	sphingosine kinase 1
Omim ID	603730
Gene Ontology	Hyperlink
Gene Summary	Sphingosine-1-phosphate (SPP) is a novel lipid messenger with both intracellular and extracellular functions. Intracellularly, it regulates proliferation and survival, and extracellularly, it is a ligand for EDG1 (MIM 601974). Various stimuli increase cellular levels of SPP by activation of sphingosine kinase (SPHK), the enzyme that catalyzes the phosphorylation of sphingosine. Competitive inhibitors of SPHK block formation of SPP and selectively inhibit cellular proliferation induced by a variety of factors, including platelet-derived growth factor (e.g., MIM 173430) and serum.[supplied by OMIM]
Other Designations	-

Pathway

- [Calcium signaling pathway](#)
- [Fc gamma R-mediated phagocytosis](#)
- [Metabolic pathways](#)
- [Sphingolipid metabolism](#)
- [VEGF signaling pathway](#)