

## Active Recombinant Human SPHK1 protein(Met1-Leu384)

**Cat. No.** SPHK1-1331H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SPHK1 (Q9NYA1-1)(Met1-Leu384) was expressed in Insect Cells, fused with two additional amino acids (Gly & Pro) at the N-terminus.                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                           |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | Met1-Leu384                                                                                                                                                                                                                                     |
| <b>Form</b>             | Supplied as sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0.                                                                                                                                                                                |
| <b>Bio-activity</b>     | The specific activity was determined to be 500nmol/min/mg using Sphingosine Kinase Substrate as substrate.                                                                                                                                      |
| <b>Molecular Mass</b>   | The recombinant Human SPHK1 consists of 386 amino acids and has a calculated molecular mass of 42.7 kDa. The recombinant protein migrates as an approximately 46 kDa band in SDS-PAGE under reducing conditions.                                |
| <b>Endotoxin</b>        | < 1.0 EU per µg of the protein as determined by the LAL method                                                                                                                                                                                  |
| <b>Purity</b>           | > 85 % as determined by SDS-PAGE                                                                                                                                                                                                                |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

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**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Gene Name       | SPHK1 sphingosine kinase 1 [ Homo sapiens ]     |
| Official Symbol | SPHK1                                           |
| Synonyms        | SPHK1; sphingosine kinase 1; SPHK; SK 1; SPK 1; |
| Gene ID         | 8877                                            |
| mRNA Refseq     | NM_001142601                                    |
| Protein Refseq  | NP_001136073                                    |
| MIM             | 603730                                          |
| UniProt ID      | Q9NYA1                                          |

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