# Recombinant Full Length Human SGPL1 Protein, C-Flag-tagged

**Cat. No.** SGPL1-711HFL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Full Length Human SGPL1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| **Species** | Human |
| **Source** | Mammalian Cells |
| **Description** | Enables sphinganine-1-phosphate aldolase activity. Involved in apoptotic signaling pathway; fatty acid metabolic process; and sphingolipid metabolic process. Located in endoplasmic reticulum. Implicated in nephrotic syndrome type 14. |
| **Form** | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| **Molecular Mass** | 63.3 kDa |
| **AA Sequence** | MPSTDLLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPWQLIAWSVVWTLLIVWGY EFVFQPESLWSRF KKKCFKLTRKMPIIGRKIQDKLNKTKDDISKNMSFLKVDKEYVK ALPSQGLSSSAVLEKLKEYSSMDAFW QEGRASGTVYSGEEKLTELLVKAYGDFAW SNPLHPDIFPGLRKIEAEIVRIACSLFNGGPDSCGCVTSGG TESILMACKAYRDLAFE KGIKTPEIVAPQSAHAAFNKAASYFGMKIVRVPLTKMMEVDVRAMRRAISRNT AMLV CSTPQFPHGVIDPVPEVAKLAVKYKIPLHVDACLGGFLIVFMEKAGYPLEHPFDFRVK GVTSISAD THKYGYAPKGSSLVLYSDKKYRNYQFFVDTDWQGGIYASPTIAGSRPG GISAACWAALMHFGENGYVEAT KQIIKTARFLKSELENIKGIFVFGNPQLSVIALGSR DFDIYRLSNLMTAKGWNLNQLQFPPSIHFCITLL HARKRVAIQFLKDIRESVTQIMKN |

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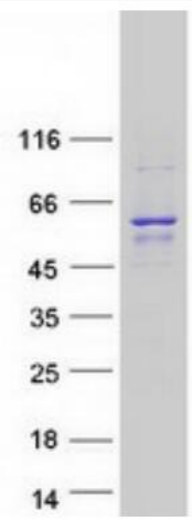
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|---|---|
| | PKAKTTGMGAIYGMAQTTVDRNMVAELSSVFLDSLYSTDTVTQGSQ MNGSPKPHTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining. |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade. |
| **Concentration** | >50 ug/mL as determined by microplate BCA method. |
| **Preparation** | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| **Protein Families** | Druggable Genome |
| **Protein Pathways** | Metabolic pathways, Sphingolipid metabolism |
| **Full Length** | Full L. |

## GENE INFORMATION

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| **Gene Name** | SGPL1 sphingosine-1-phosphate lyase 1 [ Homo sapiens (human) ] |
| **Official Symbol** | SGPL1 |
| **Synonyms** | SPL; S1PL; NPHS14 |
| **Gene ID** | 8879 |

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| **mRNA Refseq** | NM_003901.4 |
| **Protein Refseq** | NP_003892.2 |
| **MIM** | 603729 |
| **UniProt ID** | O95470 |




Coomassie blue staining of purified SGPL1 protein.

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