

## Product datasheet for PH308705

### SGPL1 (NM\_003901) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SGPL1 MS Standard C13 and N15-labeled recombinant protein (NP_003892)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208705
Predicted MW:	63.3 kDa
Protein Sequence:	>RC208705 representing NM_003901 Red=Cloning site Green=Tags(s)

MPSTDLLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPWQLIAWSVVWTLILIVWGYEFVFPESLWSRF  
KKKCFKLTRKMPIIGRKIQDKLNKTKDDISKNSFLKVDKEYVKALPSQGLSSSAVLEKLKEYSSMDAFW  
QEGRASGTVYSGEEKL TELLVKAYGDFAWSNPLHPDIFPGLRKIEAEIVRIACSLFNGGPDSCGCVTSGG  
TESILMACKAYRDLAFEKGIKTPEIVAPQSAHAAFNKAASYFGMKIVRVPLTKMMEVDVRAMRAISRNT  
AMLVCSTPQFPHGVIDPVPEVAKLAVKYIPLHVDACLGGLIVFMEKAGYPLEHPDFRVKGVTSISAD  
THKYGYAPKGSSLVLYSDKKYRNYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGYVEAT  
KQIIKTARFLKSELENIKGIFVFGNPQLSVIALGSRDFDIYRLSNLMTAKGWNLNQLQFPFSIHFCITLL  
HARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYGMAQTTVDRNMVAELSSVFLDSL YSTDTVTQGSQ  
MNGSPKPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003892</a>
RefSeq Size:	4701
RefSeq ORF:	1704



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**Synonyms:** NPHS14; S1PL; SPL

**Locus ID:** 8879

**UniProt ID:** [O95470](#)

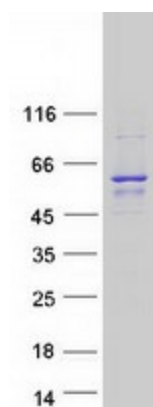
**Cytogenetics:** 10q22.1

**Summary:** Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis (PubMed:11018465, PubMed:14570870, PubMed:24809814, PubMed:28165339). Required for global lipid homeostasis in liver and cholesterol homeostasis in fibroblasts. Involved in the regulation of pro-inflammatory response and neutrophil trafficking. Modulates neuronal autophagy via phosphoethanolamine production which regulates accumulation of aggregate-prone proteins such as APP (By similarity). Seems to play a role in establishing neuronal contact sites and axonal maintenance (By similarity).[UniProtKB/Swiss-Prot Function]

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Sphingolipid metabolism

### Product images:



Coomassie blue staining of purified SGPL1 protein (Cat# [TP308705]). The protein was produced from HEK293T cells transfected with SGPL1 cDNA clone (Cat# [RC208705]) using MegaTran 2.0 (Cat# [TT210002]).