

Product datasheet for **TP308705M**

SGPL1 (NM_003901) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human sphingosine-1-phosphate lyase 1 (SGPL1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208705 representing NM_003901 Red =Cloning site Green =Tags(s)

MPSTDLLMLKAFEPYLEILEVYSTKAKNYVNGHCTKYEPWQLIAWSVVWTLIVWGYEFVFPESLWSRF
KKKCFKLTRKMPIIGRKIQDKLNKTDDISKNMSFLKVDKEYVKALPSQGLSSSAVLEKLKEYSSMDAFW
QEGRASGTVYSGEEKLTELIVKAYGDFAWSNPLHPDIFPGLRKIEAIVRIACSLFNGGPDSCGCVTSGG
TESILMACKAYRDLAFEKGIKTPEIVAPQSAHAAFNKAASYFGMKIVRVPLTKMMEVDVRAMRRAISRNT
AMLVCSTPQFPHGVIDPVPEVAKLAVKYKIPLHVDACLGGFLIVFMEKAGYPLEHPDFRVKGVTSISAD
THKYGYAPKGSSLVLYSDKKYRNYQFFVDTDWQGGIYASPTIAGSRPGGISAACWAALMHFGENGYVEAT
KQIIKTARFLKSELENIGIFVFGNPQLSVALGSRDFDIYRLSNLMTAKGWNLNLQFPSPHFCITLL
HARKRVAIQFLKDIRESVTQIMKNPKAKTTGMGAIYGMAQTTVDRNMVAELSSVFLDSLSTDTVTQGSQ
MNGSPKPH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

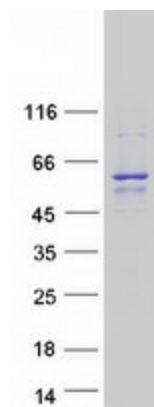
Tag:	C-Myc/DDK
Predicted MW:	63.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_003892
Locus ID:	8879
UniProt ID:	O95470
RefSeq Size:	4701
Cytogenetics:	10q22.1
RefSeq ORF:	1704
Synonyms:	NPHS14; S1PL; SPL
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]).