

Recombinant Mouse Sgpl1 Protein, Myc/DDK-tagged

Cat. No. Sgpl1-5828M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length sphingosine phosphate lyase 1 (Sgpl1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis. 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. Seems to play a role in establishing neuronal contact sites and axonal maintenance.
Molecular Mass	63.7 kDa
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 after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Sgpl1 sphingosine phosphate lyase 1 [*Mus musculus* (house mouse)]

Official Symbol Sgpl1

Synonyms SGPL1; sphingosine phosphate lyase 1; sphingosine-1-phosphate lyase 1; mSPL; SPL 1; SP-lyase 1; sphingosine-1-phosphate aldolase; Spl; S1PL; AI428538; D10Xrf456

Gene ID 20397

mRNA Refseq NM_009163

Protein Refseq NP_033189

UniProt ID Q8R0X7

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