

Sphingosine-1-phosphate lyase (SPL), Recombinant Protein

Cat RP10926

Size 0.5 mg (E-Coli)/ 0.05 mg (Baculovirus)/ 0.5 mg (Yeast)/ 0.05 mg (Mammalian-Cell)/ 1 mg (E-Coli)/ 0.1 mg (Baculovirus)/ 1 mg (Yeast)/ 0.1 mg (Mammalian-Cell)

Species

Oryza sativa subsp. japonica (Rice)

Full Product Name

Recombinant Oryza sativa subsp. japonica Sphingosine-1-phosphate lyase (SPL), partial

Product Gene Name

SPL recombinant protein

Product Synonym Gene Name

SPL

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

NAEKR KVV DQLQSGG TSTKSTLRTE LPTVGLSNQV INDLETLKAR DVNWQGKCSG TVYIAGSESE
GHFALINKAY SMFSHTNPLH QDVFKSVAQL EAEVVAMTAA LLGIKEKSSG GQICGNMTSG GTESILLAVK
TSRDYMRKK GITKPEMIIA ESAHSAYDKA AQYFNIKVRR VPVNKEFLAD VKGFKRCING NTIMMVGSAP
GFPHGLIDPI EELGELASRY DICLHVDLCL GGFVLPFARK LGYPIPPDF CVKGVTSIST DVHKYGLAPK
GTSIVLYKNH EIRKPYFFSV TEWTGGLYVS PTIAGSRPGG LIAGAWAAMT SLGLNGYMN TGHIMEVSKK
IQRGIEDIPG LFGVIGKPDMT VVAFGSDSDV IFEVNDIMSS KGWHLNALQR PNSLHICVTL QHTVIYEEFL
KDLKDSVDTV KANPGPISGG RAPIYGAAGK MPDRGMVREL LVEFMDASC

Sequence Positions

76-539

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

58,272 Da

Storage

Store at -20°C. For long-term storage, store at -20°C or -80°C. Store working aliquots at 4°C for up to one week. Repeated freezing and thawing is not recommended.

Protein Family

Protein SPOROCTELESS

NCBI Accession

XP_015621818.1

NCBI GI

1002235197

NCBI GenBank Nucleotide

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

Sphingosine-1-phosphate lyase (SPL), Recombinant Protein

Cat *RP10926*

Size 0.5 mg (*E-Coli*)/ 0.05 mg (*Baculovirus*)/ 0.5 mg (*Yeast*)/ 0.05 mg (*Mammalian-Cell*)/ 1 mg (*E-Coli*)/ 0.1 mg (*Baculovirus*)/ 1 mg (*Yeast*)/ 0.1 mg (*Mammalian-Cell*)

XM_015766332.1

NCBI GenID

4326459

NCBI Official Full Name

sphingosine-1-phosphate lyase

NCBI Official Symbol

LOC4326459

NCBI Official Synonym Symbols

SPL; S1PL; SP-lyase; P0402A09.4; P0672D08.8

NCBI Protein Information

sphingosine-1-phosphate lyase

UniProt Gene Name

SPL

UniProt Synonym Gene Names

S1PL; SP-lyase; SPL

UniProt Protein Name

Sphingosine-1-phosphate lyase

UniProt Synonym Protein Names

Sphingosine-1-phosphate aldolase

UniProt Primary Accession

Q52RG7

UniProt Secondary Accession

Q0JRH4; Q655L2; Q7F2G0; B7FAK6

UniProt Related Accession

Q52RG7

UniProt Comments

Cleaves phosphorylated sphingoid bases (PSBs), such as sphingosine-1-phosphate, into fatty aldehydes and phosphoethanolamine. Elevates stress-induced ceramide production and apoptosis .

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY