



Product Information

Sphinganine-1-phosphocholine

Cat. No.: X26-02-ZQ790

Size: 1 mg; 10 mg; 25 mg; 100 mg

Compound CID: 44260122

Synonym: Sphinganine-1-phosphocholine; LysoSM(d18:0); Sphingomyelin(d18:0/0:0)

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	The saturated analog of SPC; features a dihydrosphingosine backbone and acts as a bioactive signaling molecule.
Molecular Weight	466.6
Molecular Formula	C ₂₃ H ₅₁ N ₂ O ₅ P
IUPAC Name	[(2 <i>S</i> ,3 <i>R</i>)-2-amino-3-hydroxyoctadecyl] 2-(trimethylazaniumyl)ethyl phosphate
InChI	InChI=1S/C23H51N2O5P/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-18-23(26)22(24)21-30-31(27,28)29-20-19-25(2,3)4/h22-23,26H,5-21,24H2,1-4H3/t22-,23+/m0/s1
InChI Key	GSEOJHIBPQRSNH-XZOQPEGZSA-N
Canonical SMILES	CCCCCCCCCCCCCCC[C@H]([C@H](COP(=O)([O-])OCC[N+](C)(C)C)N)O
Source	Chemical synthesis
Form	Solid or liquid
Purity	≥90%
Identity	Confirmed by NMR/HPLC/MS.
Stability	The product is stable for one year when stored at the recommended temperature in lyophilized powder.
Quality Level	Research level
Applications	Sphinganine-1-phosphocholine can be used in sphingolipidomics to research the metabolic pathways and signaling roles of saturated sphingosine-1-phosphocholine.
Storage	Store at -20°C.