

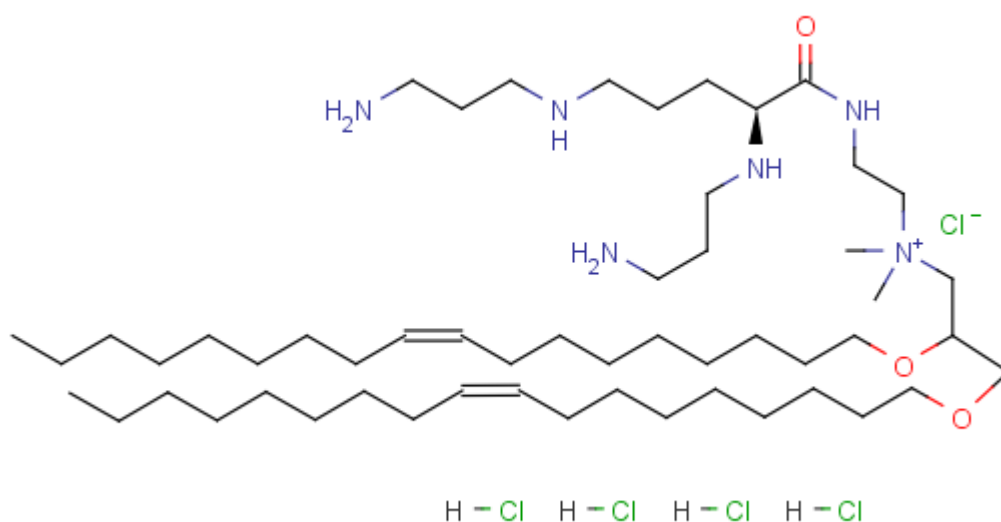
Name: DOSPA

Cat#: EX-A5801

Target:: Liposome

Pathway: Metabolic Enzyme/Protease

Chemical Structure:



Chemical Name	1-Propanaminium, N-[2-[[[(2S)-2,5-bis[(3-aminopropyl)amino]-1-oxopentyl]amino]ethyl]-N,N-dimethyl-2,3-bis[(9Z)-9-octadecenyl]oxy]-, chloride, tetrahydrochloride
InChI	InChI=1S/C54H110N6O3.5ClH/c1-5-7-9-11-13-15-17-19-21-23-25-27-29-31-33-35-48-62-51-52(63-49-36-34-32-30-28-26-24-22-20-18-16-14-12-10-8-6-2)50-60(3,4)47-46-59-54(61)53(58-45-39-42-56)40-37-43-57-44-38-41-55;;;;;/h19-22,52-53,57-58H,5-18,23-51,55-56H2,1-4H3;5*1H/b21-19-,22-20-;;;;;/t52?,53-;;;;;/m0...../s1
InChI Key	RYQDMINLUXGGGS-VNWCCFRFSA-N

Molecular Weight	1073.794	Storage	3 years -20°C powder
Formula	C54H115Cl5N6O3		6 months -80°C in solvent Away from light
CAS No.	913194-16-8	Synonyms	DOSPA hydrochloride; DOSPA tetrahydrochloride; DOSPA (S-isomer Chloride 4HCl)

Biological Activities:

Description	DOSPA is a cationic lipid for RNA and vaccine delivery.
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References	[1]. Hirsch-Lerner D, Zhang M, Eliyahu H, Ferrari ME, Wheeler CJ, Barenholz Y. Effect of "helper lipid" on lipoplex electrostatics. <i>Biochim Biophys Acta</i>. 2005 Aug 15;1714(2):71-84. doi: 10.1016/j.bbamem.2005.04.008. PMID: 16051183. [2]. Moon IJ, Kang H, Seu YB, Chang BC, Song DK, Park JG. Marked transfection enhancement by the DPL (DNA/peptide/lipid) complex. <i>Int J Mol Med</i>. 2007 Oct;20(4):429-37. PMID: 17786272. [3]. Simberg D, Danino D, Talmon Y, Minsky A, Ferrari ME, Wheeler CJ, Barenholz Y. Phase behavior, DNA ordering, and size instability of cationic lipoplexes. Relevance to optimal transfection activity. <i>J Biol Chem</i>. 2001 Dec 14;276(50):47453-9. doi: 10.1074/jbc.M105588200. Epub 2001 Sep 19. PMID: 11564736. [4]. Boulanger C, Di Giorgio C, Gaucheron J, Vierling P. Transfection with fluorinated lipoplexes based on new fluorinated cationic lipids and in the presence of a bile salt surfactant. <i>Bioconjug Chem</i>. 2004 Jul-Aug;15(4):901-8. doi: 10.1021/bc049942+. PMID: 15264880.
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