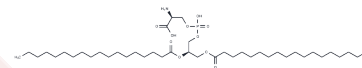


## DSPS

## Chemical Properties

CAS No. : 51446-62-9  
Formula: C42H82NO10P  
Molecular Weight: 792.08  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
Actual storage temperature shall be subject to the COA.



## Biological Description

Description	DSPS (Di-Octadecanoylphosphatidylserine) is a glycerophospholipid, an important phospholipid membrane component that plays a key role in cell cycle signaling. DSPS can regulate cellular activity and mediate apoptosis. DSPS is widely used as a nutritional supplement.
Targets(IC50)	Others,Liposome
In vitro	<b>METHODS:</b> Macrophages RAW264.7 were treated with LNP (10-50 $\mu$ M) containing DSPS (0%-95%) for 24 h. Bodipy FL positive cells were detected using Flow Cytometry. <b>RESULTS:</b> In the absence of DSPS, 10 $\mu$ M of LNP transfected only about 27% of the cells. The percentage of Bodipy FL positive cells increased to 66%, 76%, 82% and 85% when LNP contained 20%, 45%, 60% and 95% DSPS, respectively. [1]

## Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble) Ethanol: < 0.5 mg/mL (insoluble) DMSO: 0.99 mg/mL (1.25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.2625 mL	6.3125 mL	12.625 mL
5 mM	0.2525 mL	1.2625 mL	2.525 mL
10 mM	0.1262 mL	0.6312 mL	1.2625 mL
50 mM	0.0252 mL	0.1262 mL	0.2525 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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