

## DSPE-succinic acid

## Chemical Properties

CAS No. :	248253-94-3
Formula:	C45H86NO11P
Molecular Weight:	848.138
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

## Biological Description

Description	DSPE-succinic acid is a functionalized phospholipid capped with a reactive carboxylic acid moiety that readily conjugates with primary amines to form stable amide linkages, enabling its extensive use in the preparation of nanoparticles or liposomes as nanocarrier systems designed to encapsulate, protect, and deliver therapeutic agents with improved stability, bioavailability, and targeted delivery performance.
Targets(IC50)	Others
In vivo	In preclinical studies using mice bearing KB tumor xenografts, liposomal formulations containing functionalized DSPE derivatives were evaluated. Following intravenous (i.v.) administration, the targeted liposomes exhibited increased accumulation in tumor tissues. The treatment was associated with a reduction in tumor growth rates and an increase in survival time in the animal models [1].

## Solubility Information

Solubility	DMF: 2.50 mg/mL (2.95 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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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.1791 mL	5.8953 mL	11.7905 mL
5 mM	0.2358 mL	1.1791 mL	2.3581 mL
10 mM	0.1179 mL	0.5895 mL	1.1791 mL
50 mM	0.0236 mL	0.1179 mL	0.2358 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

iviere K, et al. Antitumor effect of folate-targeted liposomal doxorubicin in KB tumor-bearing mice after intravenous administration. J Drug Target. 2011 Jan;19(1):14-24.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481