



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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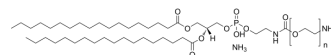
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## DSPE-PEG-Amine, MW 2000 ammonium

|                           |  |
|---------------------------|--|
| <b>Cat. No.:</b>          | HY-125924  |
| <b>CAS No.:</b>           | 474922-26-4  |
| <b>Molecular Formula:</b> | $(C_2H_4O)_n C_{44}H_{87}N_2O_{10}P.NH_3$  |
| <b>Target:</b>            | Liposome   |
| <b>Pathway:</b>           | Metabolic Enzyme/Protease  |
| <b>Storage:</b>           | 4°C, sealed storage, away from moisture<br>* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture) |



### SOLVENT & SOLUBILITY

|                 |  |
|-----------------|--|
| <b>In Vitro</b> | Ethanol : 16.67 mg/mL (Need ultrasonic)<br>DMSO : 7.14 mg/mL (ultrasonic and warming and heat to 60°C)   |
| <b>In Vivo</b>  | <ol style="list-style-type: none"> <li>Add each solvent one by one: 10% EtOH &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 1.67 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% EtOH &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 1.67 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% EtOH &gt;&gt; 90% corn oil<br/>Solubility: ≥ 1.67 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline<br/>Solubility: ≥ 0.71 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline)<br/>Solubility: ≥ 0.71 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil<br/>Solubility: ≥ 0.71 mg/mL (Infinity mM); Clear solution</li> </ol> |

### BIOLOGICAL ACTIVITY

|                    |   |
|--------------------|---|
| <b>Description</b> | DSPE-PEG-Amine, MW 2000 (ammonium), an amine derivative of phospholipid poly ethylene glycol, is used in the synthesis of solid lipid and thermosensitive liposomal nanoparticles for the delivery of anticancer agents <sup>[1][2][3]</sup> .  |
| <b>In Vitro</b>    | DSPE-PEG-Amine (MW 2000) (ammonium) is coated on the surface of the fluorescein diacetate (FDA) nanocrystals to provide a interface for the antibody coupling. The DSPE-PEG-Amine (MW 2000) (ammonium)-modified biolabels have a highly stable colloidal suspension with minimized nonspecific interactions. The adsorbed DSPE-PEG-Amine (MW 2000) (ammonium) layer causes the FDA nanocrystals to disperse in water and prevents their aggregation, hence conferring colloidal stability <sup>[3]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

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- [1]. Feilong Sun, et al. A Mixed Micelle Formulation for Oral Delivery of Vitamin K. *Pharm Res.* 2016 Sep;33(9):2168-79.
- [2]. Brian R Sloat, et al. In Vitro and in Vivo Anti-Tumor Activities of a Gemcitabine Derivative Carried by Nanoparticles. *Int J Pharm.* 2011 May 16;409(1-2):278-88.
- [3]. Cangel Pui-yee Chan, et al. Nanocrystal Biolabels With Releasable Fluorophores for Immunoassays. *Anal Chem.* 2004 Jul 1;76(13):3638-45.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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