

Phosphatidylcholines,soya

Cat. No.:	HY-125853		
CAS No.:	97281-47-5		
Target:	Liposome		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

Phosphatidylcholines,soya

SOLVENT & SOLUBILITY

In Vitro	<p>Ethanol : ≥ 100 mg/mL</p> <p>DMSO : 10 mg/mL (ultrasonic and warming and heat to 60°C)</p> <p>* "≥" means soluble, but saturation unknown.</p>
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% EtOH >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 1 mg/mL (Infinity mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	<p>Phosphatidylcholines,soya is a phosphatidylcholine from soybean used in the preparation of liposomes. Phosphatidylcholines,soya can be used as a vehicle in animal agent administration^{[1][2][3]}.</p>
In Vitro	<p>Fibroblasts show sensitivity toward the soybean phosphatidylcholine liposomes with an IC₅₀ of 150 μM^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- J Nanobiotechnology. 2022 Oct 20;20(1):454.

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REFERENCES

- [1]. Thomas AH, et al. Soybean phosphatidylcholine liposomes as model membranes to study lipid peroxidation photoinduced by pterin. *Biochim Biophys Acta*. 2016 Jan;1858(1):139-45.
- [2]. Formariz TP, et al. Doxorubicin biocompatible O/W microemulsion stabilized by mixed surfactant containing soya phosphatidylcholine. *Colloids Surf B Biointerfaces*. 2006 Aug 1;51(1):54-61.
- [3]. Berrocal MC, et al. Comparison of the effects of dimyristoyl and soya phosphatidylcholine liposomes on human fibroblasts. *Drug Deliv*. 2000 Jan-Mar;7(1):37-44.
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Caution: Product has not been fully validated for medical applications. For research use only.

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