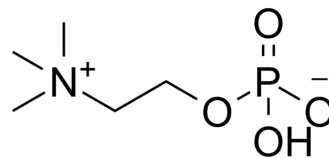


## Phosphorylcholine

<b>Cat. No.:</b>	HY-B2233B
<b>CAS No.:</b>	3616-04-4
<b>Molecular Formula:</b>	C <sub>5</sub> H <sub>14</sub> NO <sub>4</sub> P
<b>Molecular Weight:</b>	183.14
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 100 mg/mL (546.03 mM; Need ultrasonic)					
	Ethanol : 4 mg/mL (21.84 mM; Need ultrasonic)					
	DMSO : < 1 mg/mL (insoluble or slightly soluble)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
<b>1 mM</b>			5.4603 mL	27.3015 mL	54.6030 mL	
<b>5 mM</b>			1.0921 mL	5.4603 mL	10.9206 mL	
	<b>10 mM</b>		0.5460 mL	2.7302 mL	5.4603 mL	
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (546.03 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Phosphatidylcholine is the main phospholipid component in eukaryotic biofilms. Phosphatidylcholine exists in commensal or pathogenic bacteria associated with eukaryotes in prokaryotes. Phosphorylcholine exhibits a surprising range of immunomodulatory properties <sup>[1]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	Human Endogenous Metabolite

### CUSTOMER VALIDATION

- JCI Insight. 2021 Sep 7;151911.

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- J Physiol Biochem. 2022 Jan 20.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Harnett W, et al. Phosphorylcholine: friend or foe of the immune system? Immunol Today. 1999 Mar;20(3):125-9.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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