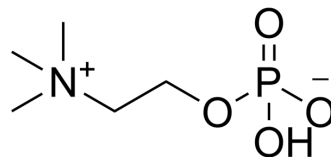


## Phosphorylcholine

Cat. No.:	HY-B2233B
CAS No.:	3616-04-4
Molecular Formula:	C <sub>5</sub> H <sub>14</sub> NO <sub>4</sub> P
Molecular Weight:	183
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)



### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (546.45 mM; Need ultrasonic)					
	Ethanol : 4 mg/mL (21.86 mM; Need ultrasonic)					
	DMSO : < 1 mg/mL (insoluble or slightly soluble)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		5.4645 mL	27.3224 mL	54.6448 mL
5 mM			1.0929 mL	5.4645 mL	10.9290 mL	
10 mM			0.5464 mL	2.7322 mL	5.4645 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (546.45 mM); Clear solution; Need ultrasonic					

### BIOLOGICAL ACTIVITY

Description	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> .	
IC <sub>50</sub> & Target	Human Endogenous Metabolite	Microbial Metabolite

### CUSTOMER VALIDATION

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- Nat Commun. 2023 Mar 24;14(1):1631.
  - NPJ Biofilms Microbiomes. 2023 Sep 4;9(1):62.
  - JCI Insight. 2021 Sep 7;151911.
  - 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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