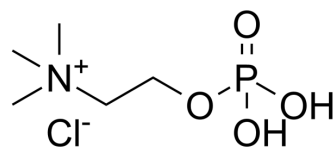


Phosphorylcholine chloride

Cat. No.:	HY-B2233		
CAS No.:	107-73-3		
Molecular Formula:	C ₅ H ₁₅ ClNO ₄ P		
Molecular Weight:	219.6		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 125 mg/mL (569.22 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	4.5537 mL	22.7687 mL	45.5373 mL
5 mM	0.9107 mL	4.5537 mL	9.1075 mL
10 mM	0.4554 mL	2.2769 mL	4.5537 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Phosphorylcholine chloride (Phosphocholine chloride) is an antigenic cell-surface component found on many commensal and pathogenic bacteria that reside in the upper airway.

In Vitro

Phosphorylcholine materials are bio-inspired polymers that mimic the extracellular surface of red blood cells, containing an exact chemical copy of the predominant zwitterionic phospholipid headgroup found in the cell lipid membrane. The phosphorylcholine side chain of the PC-polymer contains the phosphate moiety present in phosphatidylcholine and phosphatidylserine, the latter being membrane lipid component that is able to bind calcium and is implicated in biomineralization^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- JCI Insight. 2021 Sep 7;151911.

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REFERENCES

[1]. Lawton JM, et al. The effect of cationically-modified phosphorylcholine polymers on human osteoblasts in vitro and their effect on bone formation in vivo. J Mater Sci Mater Med. 2017 Aug 17;28(9):144.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA