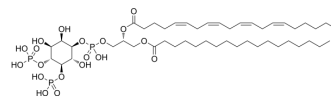


Phosphatidylinositol 4,5-bisphosphate

Cat. No.:	HY-114457
CAS No.:	245126-95-8
Molecular Formula:	C ₄₇ H ₈₅ O ₁₉ P ₃
Molecular Weight:	1047.09
Target:	PI3K
Pathway:	PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Phosphatidylinositol 4,5-bisphosphate (L-alpha-Phosphatidylinositol-4,5-bisphosphate), a phospholipid component of cell membranes, is a substrate for phospholipase C (PLC) and phosphoinositide 3-kinase (PI3K) and as a primary messenger^{[1][2][3]}.

REFERENCES

- [1]. Katan M, et, al. Phosphatidylinositol(4,5)bisphosphate: diverse functions at the plasma membrane. *Essays Biochem.* 2020 Sep 23;64(3):513-531.
- [2]. Arreola J, et, al. Wasted TMEM16A channels are rescued by phosphatidylinositol 4,5-bisphosphate *Cell Calcium.* 2019 Dec;84:102103.
- [3]. Kato M, et, al. Arabidopsis PCaP2 modulates the phosphatidylinositol 4,5-bisphosphate signal on the plasma membrane and attenuates root hair elongation. *Plant J.* 2019 Aug;99(4):610-625.

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

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