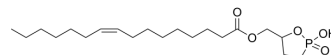


Palmitoleoyl 3-carbacyclic phosphatidic acid

Cat. No.:	HY-134954
CAS No.:	910228-13-6
Molecular Formula:	C ₂₀ H ₃₇ O ₅ P
Molecular Weight:	388.48
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Palmitoleoyl 3-carbacyclic phosphatidic acid (3ccPA 16:1) is an intermediately potent inhibitor of autotaxin (ATX) with an IC ₅₀ of 620 nM. Palmitoleoyl 3-carbacyclic phosphatidic acid can be used for melanoma research ^[1] .
IC₅₀ & Target	IC ₅₀ : 620 nM (Autotaxin) ^[1]
In Vitro	Palmitoleoyl 3-carbacyclic phosphatidic acid (3 μM, 22 h) significantly attenuated (81%) the ATX- and LPC-induced invasion of A2058 cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Palmitoleoyl 3-carbacyclic phosphatidic acid (250 μg/kg, i.p., 15 min and 48 h after the i.v. of 5 × 10 ⁵ B16F10 melanoma cells per mouse) blocks 1/3 of the lung metastasis of melanoma cells (37±10 tumors) compared with vehicle control (57±14 tumors) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Baker DL, et al. Carba analogs of cyclic phosphatidic acid are selective inhibitors of autotaxin and cancer cell invasion and metastasis. J Biol Chem. 2006 Aug 11;281(32):22786-93.

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

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