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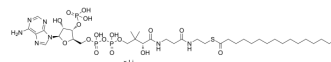
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Palmitoyl coenzyme A lithium

Cat. No.:	HY-134427
CAS No.:	188174-64-3
Molecular Formula:	C ₃₇ H ₆₆ N ₇ O ₁₇ P ₃ S.xLi
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Palmitoyl coenzyme A lithium is an acyl-CoA thioester that can be transported into the mitochondrial matrix via the carnitine shuttle system and is involved in β-oxidation. Palmitoyl coenzyme A lithium can also be used as a substrate for sphingosine biosynthesis ^{[1][2]} .
In Vitro	Palmitoyl coenzyme A lithium (100 μM) reversibly inhibits acetyl coenzyme A carboxylase activity from chicken hepatocytes and is competitive with citric acid and has an important role in the regulation of fatty acid synthesis in vivo ^[1] . Palmitoyl coenzyme A lithium with a high levels in mitochondria reduces the entry of ADP, which leads to an increased inhibition of glutamate dehydrogenase by palmitoyl CoA ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. A G Goodridge, et al. Regulation of the activity of acetyl coenzyme A carboxylase by palmitoyl coenzyme A and citrate. J Biol Chem. 1972 Nov 10;247(21):6946-52.
- [2]. L A Fahien, et al. Regulation of glutamate dehydrogenase by palmitoyl-coenzyme A. Arch Biochem Biophys. 1981 Nov;212(1):247-53.

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

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