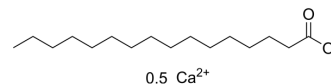


Palmitic acid calcium

Cat. No.:	HY-N0830A
CAS No.:	542-42-7
Molecular Formula:	$C_{16}H_{32}O_2 \cdot 1/2Ca$
Molecular Weight:	275.46
Target:	HSP; Endogenous Metabolite
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Palmitic acid calcium is a long-chain saturated fatty acid commonly found in both animals and plants. PA can induce the expression of glucose-regulated protein 78 (GRP78) and CCAAT/enhancer binding protein homologous protein (CHOP) in mouse granulosa cells. Palmitic acid calcium is used to establish a cell steatosis model ^{[1][2]} .
IC₅₀ & Target	Human Endogenous Metabolite
In Vitro	Palmitic acid calcium (0.1, 0.25 or 0.5 mM; 12-72 h) increases the mRNA levels of Notch1, ?2 and ?4 in LX2, Huh7 and MIHA hepatic cell lines ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Discov. 2023 Mar 7;9(1):26.
- Bioact Mater. 2024 Mar, 33, 85-99.
- Adv Sci (Weinh). 2023 Oct;10(28):e2302130.
- Gut Microbes. 2022, 14(1): 2139978.
- Cardiovasc Diabetol. 2023 May 6;22(1):107.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Harada H, et al. Antitumor activity of palmitic acid found as a selective cytotoxic substance in a marine red alga. Anticancer Res. 2002 Sep-Oct;22(5):2587-90.
- [2]. Wen-Jin Ding, et al. Expression of Notch family is altered in non alcoholic fatty liver disease. Mol Med Rep. 2020 Sep;22(3):1702-1708.

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

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