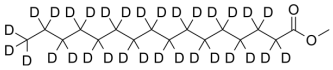
Methyl palmitate-d_{31}

Cat. No.:	HY-N1482S1
CAS No.:	29848-79-1
Molecular Formula:	$C_{17}H_3D_{31}O_2$
Molecular Weight:	301.64
Target:	Parasite
Pathway:	Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Methyl palmitate-d_{31} is the deuterium labeled Methyl palmitate. Methyl palmitate, an acaricidal compound occurring in green walnut husks, inhibits phagocytic activity and immune response. Methyl palmitate also posseses anti-inflammatory and antifibrotic effects[1][2][3].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. El-Demerdash E, et al, Anti-inflammatory and antifibrotic effects of methyl palmitate. Toxicol Appl Pharmacol. 2011 Aug 1;254(3):238-44.

[2]. N. R. Di Luzio, et al. Depression of phagocytic activity and immune response by methyl palmitate. Am J Physiol. 1964 May;206:939-43.

[3]. Y. N. Wang, et al. Methyl Palmitate, an Acaricidal Compound Occurring in Green Walnut Husks. Journal of Economic Entomology, Volume 102, Issue 1, 1 February 2009, Pages 196–202.

[4]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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