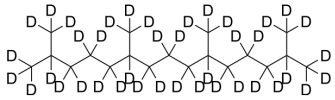
Pristane-d_{40}

Cat. No.:	HY-N7819S
CAS No.:	16416-35-6
Molecular Formula:	$C_{19}D_{40}$
Molecular Weight:	308.77
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Pure form -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Pristane-d_{40} is the deuterium labeled Pristane[1]. Pristane (Norphytane) is a naturally occurring hydrocarbon oil found in small quantities in many plants, in various marine organisms, and as the most active component of mineral oil[2]. Pristane is a non-antigenic adjuvant, and induces MHC class II-restricted, arthritogenic T cells in the rat[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

[2]. J J Turner, et al. Krypton Fluoride: Preparation by the Matrix Isolation Technique. Science. 1963 May 31;140(3570):974-5.

[3]. Jens Holmberg,et al. Pristane, a non-antigenic adjuvant, induces MHC class II-restricted, arthritogenic T cells in the rat. J Immunol. 2006 Jan 15176(2):1172-9.

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