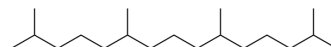


Pristane

Cat. No.:	HY-N7819
CAS No.:	1921-70-6
Molecular Formula:	C ₁₉ H ₄₀
Molecular Weight:	268.52
Target:	Others
Pathway:	Others
Storage:	<div>Pure form</div> <div>-20°C 3 years</div> <div>4°C 2 years</div> <div>In solvent</div> <div>-80°C 6 months</div> <div>-20°C 1 month</div>



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (372.41 mM; Need ultrasonic)					
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass	1 mg	5 mg	10 mg
		1 mM		3.7241 mL	18.6206 mL	37.2412 mL
		5 mM		0.7448 mL	3.7241 mL	7.4482 mL
		10 mM		0.3724 mL	1.8621 mL	3.7241 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (9.31 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.31 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.31 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	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 ^[1] . Pristane is a non-antigenic adjuvant, and induces MHC class II-restricted, arthritogenic T cells in the rat ^[2] .
In Vitro	Pristane activates CD4 ⁺ αβT cells that are MHC class II restricted and arthritogenic ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Pristane activates CD4⁺ alpha beta T cells that are MHC class II restricted and arthritogenic in vivo^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Naive recipient rats (DA) ^[2]
Dosage:	500 µL of Pristane oil
Administration:	Intradermal injection
Result:	Both CD4 ⁺ , CD8 ⁺ αβT cells and B cells significantly expand in draining lymph nodes until day 6 after injection, whereafter the CD4 ⁺ αβT cells continue to expand until day 12 after injection.

REFERENCES

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

[2]. Jens Holmberg, et al. Pristane, a non-antigenic adjuvant, induces MHC class II-restricted, arthritogenic T cells in the rat. J Immunol. 2006 Jan 15;176(2):1172-9.

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

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