17α -Hydroxyprogesterone-d $_8$

MedChemExpress

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Cat. No.:	HY-B0891S				
CAS No.:	850023-80-2				
Molecular Formula:	C ₂₁ H ₂₂ D ₈ O ₃				
Molecular Weight:	338.51				
Target:	Progesterone Receptor; Endogenous Metabolite				
Pathway:	Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease				
Storage:	Powder	-20°C	3 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (1 H2O : ≥ 0.1 mg/mL (0	47.71 mM; Need ultrasonic) 47.71 mM; Need ultrasonic) 9.30 mM) but saturation unknown.				
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.9541 mL	14.7706 mL	29.5412 mL	
		5 mM	0.5908 mL	2.9541 mL	5.9082 mL	
		10 mM	0.2954 mL	1.4771 mL	2.9541 mL	
	Please refer to the so	olubility information to select the app	propriate solvent.			
In Vivo		one by one: 10% DMSO >> 90% (20 mg/mL (3.69 mM); Clear solution	% SBE-β-CD in saline)			
		t one by one: 10% DMSO >> 90% corn oil mg/mL (3.69 mM); Clear solution				

BIOLOGICAL ACTIVITY				
Description	17α -Hydroxyprogesterone-d ₈ is the deuterium labeled 17α -Hydroxyprogesterone. 17α -Hydroxyprogesterone (17- Hydroxyprogesterone) is an endogenous progestogen as well as chemical intermediate in the biosynthesis of other steroid hormones, including the corticosteroids and the androgens and the estrogens.			
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.			

Product Data Sheet

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REFERENCES

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

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

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