



SZABO SCANDIC

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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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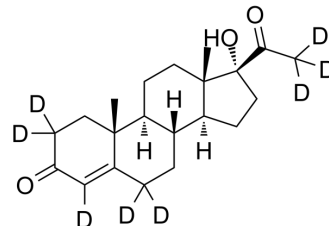
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17 α -Hydroxyprogesterone-d₈

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 (147.71 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	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 solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: \geq 1.25 mg/mL (3.69 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: \geq 1.25 mg/mL (3.69 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

17 α -Hydroxyprogesterone-d₈ is the deuterium labeled 17 α -Hydroxyprogesterone. 17 α -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.

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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