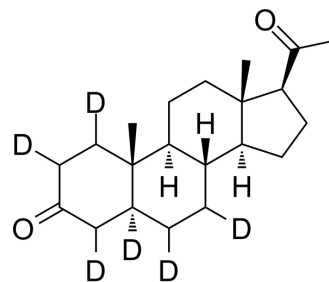


5a-Pregnane-3,20-dione-d₆

Cat. No.:	HY-W006492S		
CAS No.:	203850-92-4		
Molecular Formula:	C ₂₁ H ₂₆ D ₆ O ₂		
Molecular Weight:	322.51		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	5a-Pregnane-3,20-dione-d ₆ is the deuterium labeled 5a-Pregnane-3,20-dione. 5a-Pregnane-3,20-dione is the endogenous progesterone metabolite.
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.
- [2]. Wiebe JP, et al. The endogenous progesterone metabolite, 5a-pregnane-3,20-dione, decreases cell-substrate attachment, adhesion plaques, vinculin expression, and polymerized F-actin in MCF-7 breast cancer cells. *Endocrine.* 2001 Oct;16(1):7-14.

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

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