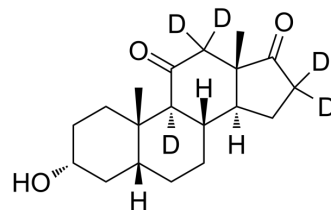


11-Oxo etiocholanolone-d5

Cat. No.:	HY-113457S
Molecular Formula:	C ₁₉ H ₂₃ D ₅ O ₃
Molecular Weight:	309.45
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	11-Oxo etiocholanolone-d5 is the deuterium labeled 11-Oxo etiocholanolone. 11-Oxo etiocholanolone (11-Ketoetiocholanolone) is a metabolite of Etiocholanolone. Etiocholanolone is the excreted metabolite of testosterone and has anticonvulsant activity ^{[1][2][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;53(2):211-216.
- [2]. Ping Li, et al. Natural and Enantiomeric Etiocholanolone Interact With Distinct Sites on the Rat alpha1beta2gamma2L GABAA Receptor. *Mol Pharmacol.* 2007 Jun;71(6):1582-90.
- [3]. Wesley J Arbuckle, et al. In Vitro Biosynthesis of Novel 5beta-reduced Steroids by the Testis of the Round Goby, *Neogobius Melanostomus*. *Gen Comp Endocrinol.* 2005 Jan 1;140(1):1-13.

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

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