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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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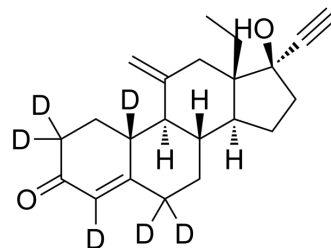
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Etonogestrel-d₆

Cat. No.:	HY-B0652S1
Molecular Formula:	C ₂₂ H ₂₂ D ₆ O ₂
Molecular Weight:	330.49
Target:	Progesterone Receptor; Estrogen Receptor/ERR; Endogenous Metabolite; FKBP; Isotope-Labeled Compounds
Pathway:	Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease; Apoptosis; Autophagy; Cell Cycle/DNA Damage; Immunology/Inflammation; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Etonogestrel-d ₆ is deuterium labeled Etonogestrel. Etonogestrel (3-Oxodesogestrel), a biologically active metabolite of progestin Desogestrel, binds with high affinity to progesterone receptors and estrogen receptors in the target organs[1]. Etonogestrel induce FKBP51 mRNA and protein expression in cultured human endometrial stromal cells (HESCs)[2].
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]. Dionne D. Maddox, et al. Etonogestrel (Implanon), Another Treatment Option for Contraception. *P T*. 2008 Jun; 33(6): 337–347.
- [3]. <http://www.drugbank.ca/drugs/DB00294>
- [4]. Ozlem Guzeloglu Kayisli, et al. Progestins Upregulate FKBP51 Expression in Human Endometrial Stromal Cells to Induce Functional Progesterone and Glucocorticoid Withdrawal: Implications for Contraceptive- Associated Abnormal Uterine Bleeding. *PLoS One*. 2015 Oct 5;10(10):e0137855.

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

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