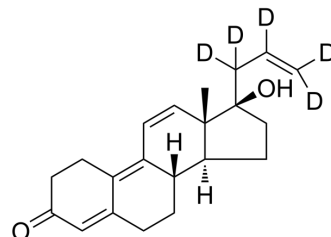


## Altrenogest-d<sub>5</sub>

Cat. No.:	HY-B0521S
Molecular Formula:	C <sub>21</sub> H <sub>21</sub> D <sub>5</sub> O <sub>2</sub>
Molecular Weight:	315.46
Target:	Progesterone Receptor
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Altrenogest-d <sub>5</sub> is the deuterium labeled Altrenogest. Altrenogest (Allyltrenbolone) is a progestogen structurally related to veterinary steroid trenbolone.
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Parry-Weeks, L.C. and D.W. Holtan, Effect of altrenogest on pregnancy maintenance in unsynchronized equine embryo recipients. *J Reprod Fertil Suppl*, 1987. 35: p. 433-8.
- [3]. Daels, P.F., et al., Persistence of the luteal phase following ovulation during altrenogest treatment in mares. *Theriogenology*, 1996. 46(5): p. 799-811.

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

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