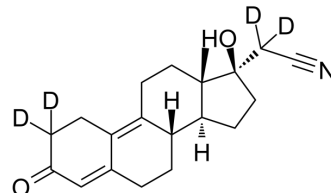


## Dienogest-d4

Cat. No.:	HY-B0084S
Molecular Formula:	C <sub>20</sub> H <sub>21</sub> D <sub>4</sub> NO <sub>2</sub>
Molecular Weight:	315.44
Target:	Progesterone Receptor; Autophagy; Apoptosis
Pathway:	Others; Autophagy; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Dienogest-d4 is deuterium labeled Dienogest.
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 <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]. Meena R, et al. Extended intervention time and evaluation of sperm suppression by dienogest plus testosterone undecanoate in male rat. *Contraception*. 2012 Jan;85(1):113-21.
- [3]. Oettel M, et al. Effect of ethinyl estradiol-dienogest combination on serum androgen concentrations. *Zentralbl Gynakol*. 1997;119(12):597-606.

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

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