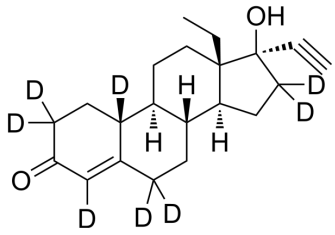
Levonorgestrel-d_8

Cat. No.:	HY-B0257S
Molecular Formula:	$C_{21}H_{20}D_8O_2$
Molecular Weight:	320.5
Target:	Progesterone Receptor; Isotope-Labeled Compounds
Pathway:	Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Levonorgestrel-d_8 is the deuterium labeled Levonorgestrel. Levonorgestrel is a synthetic progestogen used as an active ingredient in some hormonal contraceptives[1][2]. Levonorgestrel-d8 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAc) with molecules containing Azide groups.
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]. Gallos, I.D., et al., Oral progestogens vs levonorgestrel-releasing intrauterine system for endometrial hyperplasia: a systematic review and metaanalysis. Am J Obstet Gynecol, 2010. 203(6): p. 547 e1-10.

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