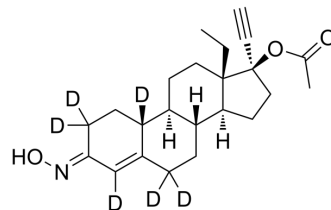


Norgestimate-d₆

Cat. No.:	HY-139244S
CAS No.:	1263194-12-2
Molecular Formula:	C ₂₃ H ₂₅ D ₆ NO ₃
Molecular Weight:	375.53
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	Norgestimate-d ₆ is the deuterium labeled Norgestimate. Norgestimate, a synthetic progesterone analog, is an orally active progestin with highly selective progestational activity and minimal androgenicity. Norgestimate is used for an oral contraceptive[1][2]. Norgestimate-d ₆ 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]. Stanczyk FZ, et al. All progestins are not created equal. *Steroids.* 2003 Nov;68(10-13):879-90.
- [3]. Phillips A, et al. Preclinical evaluation of norgestimate, a progestin with minimal androgenic activity. *Am J Obstet Gynecol.* 1992 Oct;167(4 Pt 2):1191-6.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA