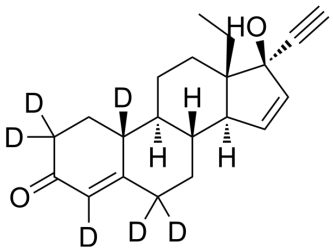
Gestodene-d_6

Cat. No.:	HY-B0110S
CAS No.:	1542211-40-4
Molecular Formula:	$C_{21}H_{20}D_6O_2$
Molecular Weight:	316.47
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	Gestodene-$d_6$is the deuterium labeled Gestodene. Gestodene(SHB 331) is a progestogen hormonal contraceptive[1][2]. Gestodene-d6 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]. Spona, J. and J. Huber, Pharmacological and endocrine profiles of gestodene. Int J Fertil, 1987. 32 Suppl: p. 6-14.;Pollow, K., et al., Lack of binding of gestodene to estrogen receptor in human breast cancer tissue. Eur J Cancer, 1990. 26(5): p. 608-10.

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