
Product Data Sheet

Product Name: Levonorgestrel-D8

Cat. No.: GC63751

Chemical Properties

Cas. No.

Formula $C_{21}H_{20}D_8O_2$ M.Wt 320.5

Solubility Storage Store at $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Levonorgestrel-D8 (D-Norgestrel-D8) is the deuterium labeled Levonorgestrel. Levonorgestrel is a synthetic progestogen used as an active ingredient in some hormonal contraceptives[1][2].

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].

[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.

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

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