
Product Data Sheet

Product Name: Norethindrone acetate-D8

Cat. No.: GC63752

Chemical Properties

Cas. No.

Formula $C_{22}H_{20}D_8O_3$ M.Wt 348.51

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

Norethindrone acetate-D8 (19-Norethindrone acetate-D8) is the deuterium labeled Norethindrone acetate. Norethindrone acetate is a female hormone used for the research of endometriosis[1].

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]. Muneyyirci-Delale O, et al. Effect of norethindrone acetate in the treatment of symptomatic endometriosis. *Int J Fertil Womens Med.* 1998 Jan-Feb;43(1):24-7.; Kaser DJ, et al. Use of norethindrone acetate alone for postoperative suppression of endometriosis symptoms. *J Pediatr Adolesc Gynecol.* 2012 Apr;25(2):105-8.; Maier WE, et al. Pharmacology and toxicology of ethinyl estradiol and norethindrone acetate in experimental animals. *Regul Toxicol Pharmacol.* 2001 Aug;34(1):53-61.; Cheng DC, et al. Norethindrone acetate inhibition of triglyceride synthesis and release by rat hepatocytes. *Atherosclerosis.* 1983 Jan;46(1):41-8.

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

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