
Product Data Sheet

Product Name: Norgestimate

Cat. No.: GC12290

Chemical Properties

Cas. No. 35189-28-7

Chemical Name (17 α)-17-(acetyloxy)-13-ethyl-18,19-dinorpregn-4-en-20-yn-3-one 3-oximeSMILES CC[C@@]12[C@](CC[C@@]2(OC(C)=O)C#C)([H])[C@]3([H])CCC4=C/C(CC[C@]4([H])[C@@]3([H])CC1)=N/OFormula C₂₃H₃₁NO₃ M.Wt 369.5Solubility \leq 2mg/ml in ethanol;14mg/ml in DMSO;16mg/ml in dimethyl formamide Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°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**

Norgestimate is a synthetic progesterone analog.

Progesterone, an endogenous steroid and progestogen sex hormone, is involved in the pregnancy, menstrual cycle, and embryogenesis. Progesterone is reported to belong to steroid hormones, and is the major progestogen in the body. Progesterone is also a crucial metabolic intermediate in the production of other endogenous steroids and plays an key role in brain function as a neurosteroid.

In vitro: Norgestimate was found that, unlike other 19-nortestosterone derivatives, showed high selectivity for the progesterone receptor and low androgenic activity. Moreover, norgestimate and its main active metabolite norelgestromin could not bind to or occupy sex hormone-binding globulin [1].

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

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In vivo: The androgenic and the progestational activity of norgestimate were compared in two animal studies. It was found the difference in the pharmacological response in norgestimate treated rats was equivalent to the difference in the exposure of the animals to either directly administered or metabolically derived levonorgestrel [2].

Clinical trial: Norgestimate (brand names Ortho-Cyclen, Ortho Tri-Cyclen, Previmem, Sprintec, Prefest, others) is a steroidal progestin of the 19-nortestosterone group that is clinically used in combination with ethinylestradiol and in combination with estradiol in menopausal hormone replacement therapy [3].

References:

[1] Thomas L. Lemke; David A. Williams (2008). Foye's Principles of Medicinal Chemistry. Lippincott Williams & Wilkins. pp. 1316-. ISBN 978-0-7817-6879-5.

[2] Kuhnz W, Beier S. Comparative progestational and androgenic activity of norgestimate and levonorgestrel in the rat. Contraception. 1994 Mar;49(3):275-89.

[3] <https://en.wikipedia.org/wiki/Norgestimate>

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