

Product Data Sheet

Product Name: Norethindrone-d6

Cat. No.: GC48788

Chemical Properties

Cas. No. 2376036-05-2

SMILES O=C1C([2H])([2H])C[C@@]2([2H])C(C([2H])([2H])C[C@]3([H])[C@]2([H])CC[C@@]4(C)[C@@]3([H])CC[C@]4(C#C)O)=C1[2H]

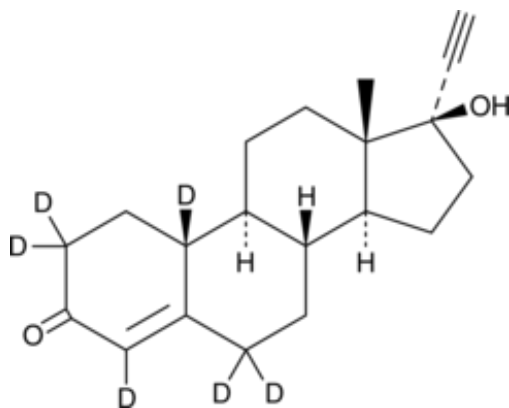
Formula C₂₀H₂₀D₆O₂ M.Wt 304.5

Solubility Chloroform: slightly soluble, Methanol: slightly soluble Storage -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

Norethindrone-d₆ is intended for use as an internal standard for the quantification of norethindrone by GC- or LC-MS. Norethindrone is a synthetic progestin.¹ *In vivo*, norethindrone (0.5 mg/animal per day) inhibits the estrous cycle in female mice. It induces tumor progression and metastasis in a BT474 breast cancer mouse xenograft model.² Formulations containing norethindrone have been used as oral contraceptives.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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1. Bruce, H.M. Preliminary note on the effect of 19-norethisterone on mating behavior and fertility in the mouse *Proc. Soc. Study Fertility* 10158-165 (1958)
2. Liang, Y., Benakanakere, I., Besch-Williford, C., et al. Synthetic progestins induce growth and metastasis of BT-474 human breast cancer xenografts in nude mice *Menopause* 17(5)1040-1047 (2010)

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