

Product Data Sheet

Product Name: Desogestrel-13C2-d2

Cat. No.: GC49025

Chemical Properties

Cas. No. N/A

SMILES O[C@@]1([13C]#[13CH])C([2H])([2H])C[C@@]([C@]1(CC)C2)([H])[C@]3([H])CCC4=C
CCC[C@]4([H])[C@@]3([H])C2=C

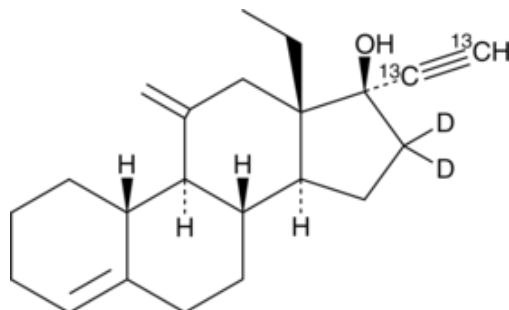
Formula C20[13C]2H28D2O M.Wt 314.5

Solubility Chloroform: slightly soluble, Methanol: very 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

Desogestrel-¹³C₂-d₂ is intended for use as an internal standard for the quantification of desogestrel by GC- or LC-MS. Desogestrel is a synthetic progestogen.¹ It inhibits ovulation and prevents fertilization in rabbits and mice. Desogestrel inhibits rhodamine 123 efflux, a measure of P-glycoprotein activity, *ex vivo* in human lymphocytes and CD8⁺ T cells in a dose-dependent manner.² Formulations containing desogestrel have been used as oral contraceptives and for the treatment of polycystic ovary syndrome.

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

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1. van der Vies, J., and de Visser, J. Endocrinological studies with desogestrel *Arzneimittelforschung* 33(2)231-236(1983)
2. Fröhlich, M., Albermann, N., Sauer, A., et al. In vitro and ex vivo evidence for modulation of P-glycoprotein activity by progestins *Biochem. Pharmacol.* 68(12)2409-2416(2004)

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