

## 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

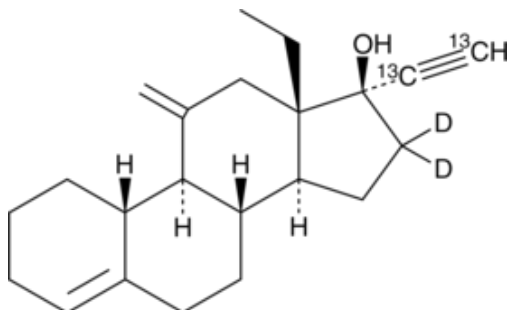
Formula C20[13C]2H28D2O M.Wt 314.5

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-<sup>13</sup>C<sub>2</sub>-d<sub>2</sub> is intended for use as an internal standard for the quantification of desogestrel by GC- or LC-MS. Desogestrel is a synthetic progestogen.<sup>1</sup> 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<sup>+</sup> T cells in a dose-dependent manner.<sup>2</sup> 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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