
Product Data Sheet

Product Name: 5a-Pregnane-3,20-dione-d6

Cat. No.: GC68374

Chemical Properties

Cas. No. 203850-92-4

Formula $C_{21}H_{26}D_6O_2$ M.Wt 322.51

Solubility 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**

5a-Pregnane-3,20-dione-d6 is the deuterium labeled 5a-Pregnane-3,20-dione. 5a-Pregnane-3,20-dione is the endogenous progesterone metabolite.

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]. Wiebe JP, et al. The endogenous progesterone metabolite, 5a-pregnane-3,20-dione, decreases cell-substrate attachment, adhesion plaques, vinculin expression, and polymerized F-actin in MCF-7 breast cancer cells. *Endocrine.* 2001 Oct;16(1):7-14.

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

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