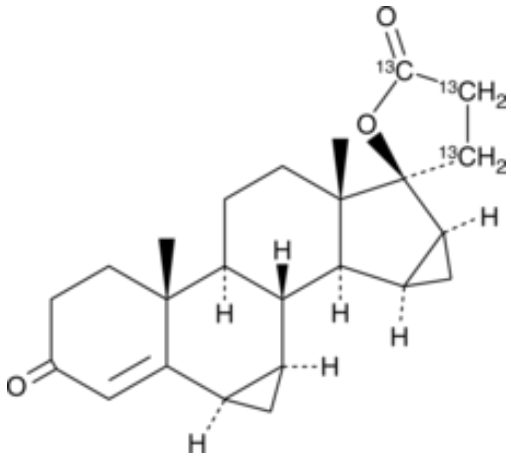
Product Data Sheet

Product Name: Drospirenone-13C3
Cat. No.: GC52420

Chemical Properties

Cas. No.			
SMILES	O=C1CC[C@@]2(C)C([C@@](C3)([H])[C@@]3([H])[C@]4([H])[C@]2([H])CC[C@@]5(C)[C@@]4([H])[C@@](C6)([H])[C@@]6([H])[C@@]57[13CH2][13CH2][13C](O7)=O)=C1		
Formula	C21[13C]3H30O3	M.Wt	369.5
Solubility	Acetonitrile: soluble,DMSO: 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

Drospirenone-$^{13}C_3$ is intended for use as an internal standard for the quantification of drospirenone

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by GC- or LC-MS. Drospirenone is a synthetic progestogen.[1] *In vivo*, drospirenone inhibits spontaneous ovulation in rats (ID_{50}s = 0.3-1.0 mg/day) when administered orally or subcutaneously.[2] Drospirenone (0.5 mg/animal) administered six times per day maintains pregnancy in ovariectomized pregnant rats. It reduces serum testosterone and luteinizing hormone (LH) in cynomolgus monkeys in a dose-dependent manner. Drospirenone (10 mg/animal per day) also inhibits testosterone-induced growth of the seminal vesicles and prostate in castrated rats. Formulations containing drospirenone have been used as oral contraceptives.[3]

1.Pollow, K., Juchem, M., Elger, W., et al.Dihydrospirorenone (ZK30595): A novel synthetic progestagen - characterization of binding to different receptor proteinsContraception46(6)561-574(1992) 2.Muhn, P., Fuhrmann, U., Fritzemeier, K.-H., et al.Drospirenone: A novel progestogen with antimineralocorticoid and antiandrogenic activityAnn. N. Y. Acad. Sci.761(1)311-335(1995) 3.Apter, D., Zimmerman, Y., Beekman, L., et al.Bleeding pattern and cycle control with estetrol-containing combined oral contraceptives: Results from a phase II, randomised, dose-finding study (FIESTA)Contraception94(4)366-373(2016)

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