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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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PRODUCT INFORMATION



Drospirenone-¹³C₃ Item No. 34008

Formal Name: (4aR,4bS,6aS,7S,7aS,8aS,8bS,8cR,8dR,9aR)-4a,6a-dimethyl-3',4,4a,4b,4',5,6,6a,7a,8,8a,8b,8c,8d,9,9a-hexadecahydro-5'H-spiro[cyclopropa[4,5]cyclopenta[1,2-a]cyclopropa[1]]phenanthrene-7,2'-furan]-2,5'(3H)-dione-3',4',5'-¹³C₃

Synonyms: 1,2-dihydro Spirorenone-¹³C₃,
ZK 30595-¹³C₃

MF: C₂₁[¹³C]₃H₃₀O₃

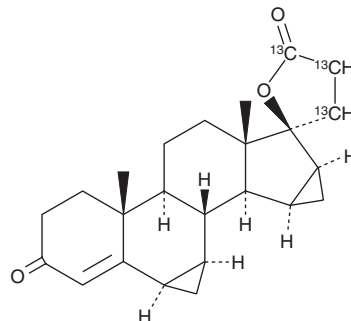
FW: 369.5

Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Drospirenone-¹³C₃ is supplied as a solid. A stock solution may be made by dissolving the drospirenone-¹³C₃ in the solvent of choice, which should be purged with an inert gas. Drospirenone-¹³C₃ is soluble in DMSO and acetonitrile.

Description

Drospirenone-¹³C₃ is intended for use as an internal standard for the quantification of drospirenone (Item No. 23347) by GC- or LC-MS. Drospirenone is a synthetic progestogen.¹ *In vivo*, drospirenone inhibits spontaneous ovulation in rats (ID₅₀s = 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

References

1. Pollow, K., Juchem, M., Elger, W., *et al.* Dihydrospirorenone (ZK30595): A novel synthetic progestagen - characterization of binding to different receptor proteins. *Contraception* **46(6)**, 561-574 (1992).
2. Muhn, P., Fuhrmann, U., Fritzemeier, K.-H., *et al.* Drospirenone: A novel progestogen with antiminerlocorticoid and antiandrogenic activity. *Ann. 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). *Contraception* **94(4)**, 366-373 (2016).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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