



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Laborgeräte & Service

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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# PRODUCT INFORMATION



## Drospirenone

Item No. 23347

**CAS Registry No.:** 67392-87-4  
**Formal Name:** 1,3',4',6R,7R,8R,9S,10R,11,12,13S,14S,15S,16S,20,21-hexadecahydro-10,13-dimethylspiro[17H-dicyclopropa[6,7:15,16]cyclopenta[a]phenanthrene-17,2'S(5'H)-furan]-3,5'(2H)-dione

**Synonyms:** 1,2-dihydro Spirorenone, ZK 30595

**MF:** C<sub>24</sub>H<sub>30</sub>O<sub>3</sub>

**FW:** 366.5

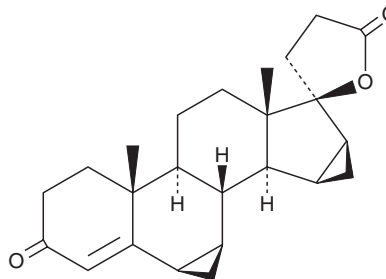
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 259 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** ≥2 years



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

### Laboratory Procedures

Drospirenone is supplied as a crystalline solid. A stock solution may be made by dissolving the drospirenone in the solvent of choice. Drospirenone is soluble in dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of drospirenone in DMF is approximately 2 mg/ml.

Drospirenone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, drospirenone should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Drospirenone has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Drospirenone is a synthetic progestogen that binds to the progesterone, mineralocorticoid, and androgen receptors with binding affinities of 20, 230, and 65% relative to R5020, aldosterone (Item No. 15273), and R1881, respectively.<sup>1</sup> *In vivo*, drospirenone inhibits spontaneous ovulation in rats (ID<sub>50</sub>s = 0.3-1.0 mg/day) when administered orally or subcutaneously.<sup>2</sup> Drospirenone (0.5 mg/animal) administered six times per day maintains pregnancy in ovariectomized pregnant rats. It reduces serum testosterone (Item Nos. 15645 | ISO60154) and luteinizing hormone 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.<sup>3</sup>

### 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 antimineralocorticoid 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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