



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

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-dimethyl-spiro[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: C₂₄H₃₀O₃

FW: 366.5

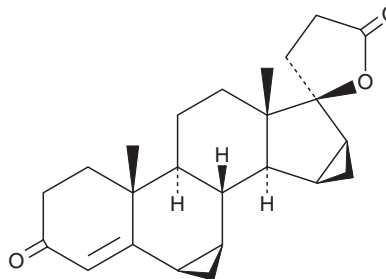
Purity: ≥98%

UV/Vis.: λ_{max}: 259 nm

Supplied as: A crystalline 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 is supplied as a crystalline solid. A stock solution may be made by dissolving the drospirenone in the solvent of choice, which should be purged with an inert gas. Drospirenone is soluble in dimethyl formamide (DMF) at a concentration of 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.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 (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.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 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.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 12/05/2022

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA

PHONE: [800] 364-9897
[734] 971-3335

FAX: [734] 971-3640

CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM