



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 HandelsgmbH

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) 

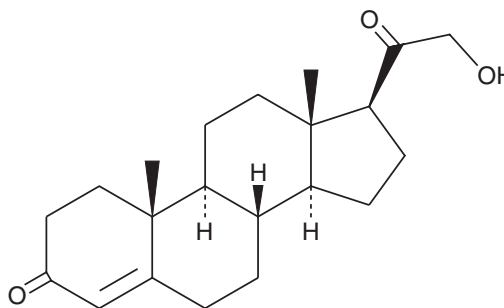
PRODUCT INFORMATION



11-deoxy Corticosterone

Item No. 22916

CAS Registry No.: 64-85-7
Formal Name: 21-hydroxy-pregn-4-ene-3,20-dione
Synonyms: 21-hydroxy Progesterone
DOC
NSC 11319
MF: $C_{21}H_{30}O_3$
FW: 330.5
Purity: $\geq 95\%$
UV/Vis.: λ_{max} : 240 nm
Supplied as: A crystalline solid
Storage: $-20^{\circ}C$
Stability: ≥ 2 years



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

Laboratory Procedures

11-deoxy Corticosterone (DOC) is supplied as a crystalline solid. A stock solution may be made by dissolving the DOC in the solvent of choice. DOC is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of DOC in these solvents is approximately 25 mg/ml.

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

Description

DOC is an endogenous mineralocorticoid synthesized in the zona fasciculata and zona glomerulosa of the adrenal gland.¹ It is a metabolite of progesterone (Item No. 15876) and precursor to aldosterone (Item No. 15273) and corticosterone (Item No. 16063).² DOC is metabolized to the neuroactive compound (3 α ,5 α)-2,21-dihydroxypregnan-20-one (THDOC), which positively modulates GABA_A receptors and produces effects similar to barbiturates in rats.³ Injections of naloxone (Item Nos. 15594 | ISO60191) and corticotropin-releasing hormone (CRH) increase, while dexamethasone decreases, DOC in cynomolgus monkeys.¹ DOC levels are increased 3.4-fold in obese and diabetic mice.²

References

1. Jimenez, V.A., Porcu, P., Morrow, A.L., *et al.* Adaptations in basal and hypothalamic-pituitary-adrenal-activated deoxycorticosterone responses following ethanol self-administration in cynomolgus monkeys. *Front. Endocrinol.* (Lausanne) **8(19)**, (2017).
2. Hofmann, A., Peitzsch, M., Brunssen, C., *et al.* Elevated steroid hormone production in the db/db mouse model of obesity and type 2 diabetes. *Horm. Metab. Res.* **49(1)**, 43-49 (2017).
3. Majewska, M.D., Harrison, N.L., Schwartz, R.D., *et al.* Steroid hormone metabolites are barbiturate-like modulators of the GABA receptor. *Science* **232(4753)**, 1004-1007 (1986).

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, 08/23/2017

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