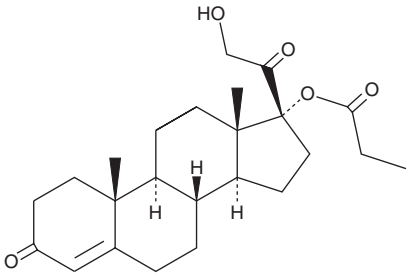
PRODUCT INFORMATION

Cortexolone 17α-propionate

Item No. 28392

CAS Registry No.:	19608-29-8
Formal Name:	21-hydroxy-17-(1-oxopropoxy)-pregn-4-ene-3,20-dione
Synonym:	CB-03-01
MF:	$C_{24}H_{34}O_5$
FW:	402.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 240, 295 nm
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

Cortexolone 17α-propionate is supplied as a solid. A stock solution may be made by dissolving the cortexolone 17α-propionate in the solvent of choice, which should be purged with an inert gas. Cortexolone 17α-propionate is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of cortexolone 17α-propionate in DMSO is approximately 10 mg/ml and approximately 20 mg/ml in ethanol and DMF.

Cortexolone 17α-propionate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, cortexolone 17α-propionate should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Cortexolone 17α-propionate has a solubility of approximately 0.1 mg/ml in a 1:9 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Cortexolone 17α-propionate is a peripherally selective androgen receptor antagonist.[1] Cortexolone 17α-propionate binds to the androgen receptor (AR) and inhibits AR-regulated transcription in a reporter assay.[2] It also inhibits androgen-regulated lipid synthesis in primary human sebocytes. Cortexolone 17α-propionate inhibits inflammatory cytokine production from primary human sebocytes and scalp dermal papilla cells.[2,3] It inhibits testosterone propionate-induced flank organ enlargement in Syrian golden hamsters by 84% when administered topically at a dose of 400 µg/animal.

References

1. Celasco, G., Moro, L., Bozzella, R., *et al.* Biological profile of cortexolone 17α-propionate (CB-03-01), a new topical and peripherally selective androgen antagonist. *Arzneimittelforschung* **54(12),** 881-886 (2004).
2. Rosette, C., Agan, F.J., Mazzetti, A., *et al.* Cortexolone 17α-propionate (clascoterone) is a novel androgen receptor antagonist that inhibits production of lipids and inflammatory cytokines from sebocytes in vitro. *J. Drugs Dermatol.* **18(5),** 412-418 (2019).
3. Rosette, C., Rosette, N., Mazezetti, A., *et al.* Cortexolone 17α-propionate (clascoterone) is an androgen receptor antagonist in dermal papilla cells in vitro. *J. Drugs Dermatol.* **18(2),** 197-201 (2019).

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