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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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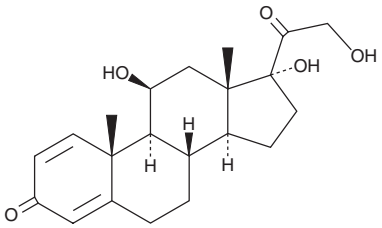
PRODUCT INFORMATION

Prednisolone

Item No. 20866

CAS Registry No.: 50-24-8
Formal Name: 11β,17,21-trihydroxy-pregna-1,4-diene-3,20-dione
Synonyms: NSC 9120, NSC 9900
MF: $C_{21}H_{28}O_5$
FW: 360.4
Purity: ≥98%
UV/Vis.: λ_{max}: 242 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

Prednisolone is supplied as a crystalline solid. A stock solution may be made by dissolving the prednisolone in the solvent of choice. Prednisolone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of prednisolone in these solvents is approximately 30 mg/ml.

Prednisolone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, prednisolone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Prednisolone has a solubility of approximately 0.2 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

Prednisolone is the active metabolite of the synthetic corticosteroid prednisone (Item No. 20677), which is used in the suppression of inflammation and autoimmunity, as well as in other conditions.[1] It alters gene expression through both the glucocorticoid and mineralocorticoid receptors.[2]

References

1. Brownie, A.C. The metabolism of adrenal cortical steroids, Chapter 10, *in* The Adrenal Gland. James, V.H.T., editor, 2, Raven Press,Ltd., New York, 209-25 (1992).
2. Coghlan, M.J., Kym, P.R., Elmore, S.W., *et al.* Synthesis and characterization of non-steroidal ligands for the glucocorticoid receptor: Selective quinoline derivatives with prednisolone-equivalent functional activity. *J. Med. Chem.* **44**, 2879-2885 (2001).

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