PRODUCT INFORMATION



16α-hydroxy Prednisolone

Item No. 27169

CAS Registry No.: 13951-70-7

Formal Name: $(11\beta,16\alpha)-11,16,17,21$ -tetrahydroxy-

pregna-1,4-diene-3,20-dione

MF: $C_{21}H_{28}O_6$ FW: 376.4 **Purity:** ≥98% UV/Vis.: λ_{max} : 243 nm A solid Supplied as: -20°C Storage: Stability: ≥4 years

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

Laboratory Procedures

16α-hydroxy Prednisolone is supplied as a solid. A stock solution may be made by dissolving the 16α -hydroxy prednisolone in the solvent of choice. 16α -hydroxy Prednisolone is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of 16α -hydroxy prednisolone in these solvents is approximately 30 mg/ml.

16α-hydroxy Prednisolone is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 16α-hydroxy prednisolone should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 16α -hydroxy Prednisolone has a solubility of approximately 0.2 mg/ml in a 1:4 solution of ethanol: PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

16α-hydroxy Prednisolone is a metabolite of 22(R)-budesonide.¹ It is formed from 22(R)-budesonide by the cytochrome P450 (CYP) isoform CYP3A in human liver microsomes

Reference

2. Jönsson, G., Aström, A., and Andersson, P. Budesonide is metabolized by cytochrome P450 3A (CYP3A) enzymes in human liver. Drug Metab. Dispos. 23(1), 137-142 (1995).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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

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, 03/29/2023

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