



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



Prednisone-d₇ Item No. 26459

Formal Name: 17-hydroxy-17-(2-hydroxyacetyl)-10,13-dimethyl-7,8S,9S,10R,12,13S,14S,15,16,17R-decahydro-3H-cyclopenta[a]phenanthrene-3,11(6H)-dione-2,4,6,6,9,12,12-d₇

Synonym: 1,2-Dehydrocortisone-d₇

MF: C₂₁H₁₉D₇O₅

FW: 365.5

Chemical Purity: ≥95% (Prednisone)

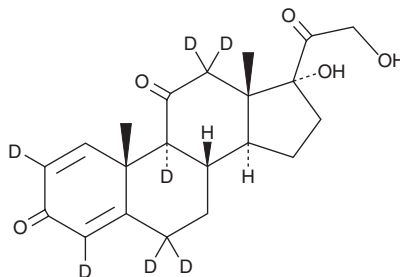
Deuterium

Incorporation: ≥99% deuterated forms (d₁-d₇); ≤1% d₀

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years



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

Laboratory Procedures

Prednisone-d₇ is intended for use as an internal standard for the quantification of prednisone (Item No. 20677) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Prednisone-d₇ is supplied as a solid. A stock solution may be made by dissolving the prednisone-d₇ in the solvent of choice, which should be purged with an inert gas. Prednisone-d₇ is slightly soluble in DMSO.

Description

Prednisone is a synthetic glucocorticoid with anti-inflammatory and immunosuppressant activities.¹ It inhibits paw swelling induced by sodium urate in mice by 86% when administered at a dose of 12 mg/kg.² Prednisone reduces release of IL-6, monocyte chemoattractant protein-2 (MCP-2), MCP-3, RANTES, and TNF-α in stented arteries in a rabbit model of atherosclerosis.³ Formulations containing prednisone have been used in the treatment of non-Hodgkin lymphoma as part of CHOP chemotherapy and as anti-inflammatory or immunosuppressive agents.

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, 209-225 (1992).
2. Fitzgerald, T.J., Williams, B., and Uyeki, E.M. Effects of antimetabolic and anti-inflammatory agents on sodium urate-induced paw swelling in mice. *Pharmacology* **6(5)**, 265-273 (1971).
3. Ribichini, F., Joner, M., Ferrero, V., et al. Effects of oral prednisone after stenting in a rabbit model of established atherosclerosis. *J. Am. Coll. Cardiol.* **50(2)**, 176-185 (2007).

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, 01/23/2019

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