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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Dexamethasone Phosphate (sodium salt)

Item No. 20340

CAS Registry No.: 2392-39-4
Formal Name: (11 β ,16 α)-9-fluoro-11,17-dihydroxy-16-methyl-21-(phosphonoxy)-pregna-1,4-diene-3,20-dione, disodium salt

MF: C₂₂H₂₈FO₈P • 2Na

FW: 516.4

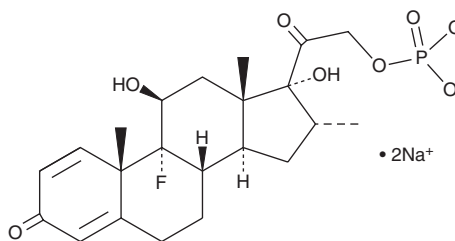
Purity: \geq 95%

UV/Vis.: λ_{\max} : 239 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

Dexamethasone phosphate (sodium salt) is supplied as a crystalline solid. Aqueous solutions of dexamethasone phosphate (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of dexamethasone phosphate (sodium salt) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Dexamethasone phosphate is a water-soluble form of the synthetic glucocorticoid dexamethasone (Item No. 11015). Dexamethasone binds the human glucocorticoid receptor with a higher affinity than a natural ligand, cortisol ($K_d = 5$ nM vs. 17 nM, respectively).¹ Through receptor activation, dexamethasone has both transactivating and transrepressing effects on gene expression, producing, in general, anti-inflammatory results in clinical trials.²

References

1. Mulatero, P., Panarelli, M., Schiavone, D., *et al.* Impaired cortisol binding to glucocorticoid receptors in hypertensive patients. *Hypertension* **30(5)**, 1274-1278 (1997).
2. Beck, I.M., Vanden Berghe, W., Vermeulen, L., *et al.* Crosstalk in inflammation: The interplay of glucocorticoid receptor-based mechanisms and kinases and phosphatases. *Endocr. Rev.* **30(7)**, 830-882 (2009).

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.

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