



# SZABO SCANDIC

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## Produktinformation



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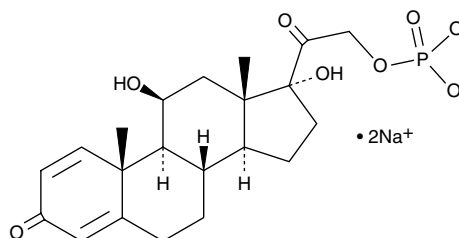
# Product Information



## Prednisolone Phosphate (sodium salt)

Item No. 15933

**CAS Registry No.:** 125-02-0  
**Formal Name:** 11 $\beta$ ,17-dihydroxy-21-(phosphonoxy)-pregna-1,4-diene-3,20-dione, disodium salt  
**Synonym:** Disodium Prednisolone 21-Phosphate  
**MF:** C<sub>21</sub>H<sub>27</sub>O<sub>8</sub>P • 2Na  
**FW:** 484.4  
**Purity:**  $\geq$ 98%  
**Stability:**  $\geq$ 2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 242 nm



### Laboratory Procedures

For long term storage, we suggest that prednisolone phosphate (sodium salt) be stored as supplied at -20°C. It should be stable for at least 2 years.

Prednisolone phosphate (sodium salt) is supplied as a crystalline solid. Aqueous solutions of prednisolone phosphate (sodium salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of prednisolone 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.

Prednisolone is a synthetic analog of the natural glucocorticoid corticosterone that has anti-inflammatory and immunosuppressive actions.<sup>1,2</sup> It avidly binds both glucocorticoid and mineralocorticoid receptors ( $K_s = 2.4$  and 37 nM).<sup>3</sup> Prednisolone phosphate, prepared as the sodium salt, is a water-soluble ester of the poorly soluble parent molecule, prednisolone.<sup>4</sup> It is rapidly hydrolyzed *in vivo* to the parent molecule when administered intravenously.<sup>4</sup> In addition, when given orally, prednisolone phosphate is more readily absorbed than prednisolone, resulting in a higher effective blood concentration of prednisolone.<sup>5</sup>

### 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. Yang, B.V., Weinstein, D.S., Doweiko, L.M., *et al.* Dimethyl-diphenyl-propanamide derivatives as nonsteroidal dissociated glucocorticoid receptor agonists. *J. Med. Chem.* **53**(23), 8241-8251 (2010).
3. Kym, P.R., Kort, M.E., Coghlan, M.J., *et al.* Nonsteroidal selective glucocorticoid modulators: The effect of C-10 substitution on receptor selectivity and functional potency of 5-allyl-2,5-dihydro-2,2,4-trimethyl-1H-[1]benzopyrano[3,4-f]quinolines. *J. Med. Chem.* **46**(6), 1016-1030 (2003).
4. Frey, B.M., Seeberger, M., and Frey, F.J. Pharmacokinetics of 3 prednisolone prodrugs. Evidence of therapeutic inequivalence in renal transplant patients with rejection. *Transplantation* **39**(3), 270-274 (1985).
5. Bailey, E., Murphy, D., and West, H.F. Oral prednisolone phosphate therapy. *Arch. Dis. Child.* **38**, 71-74 (1963).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15933](http://www.caymanchem.com/catalog/15933)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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