



# SZABO SCANDIC

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## Produktinformation



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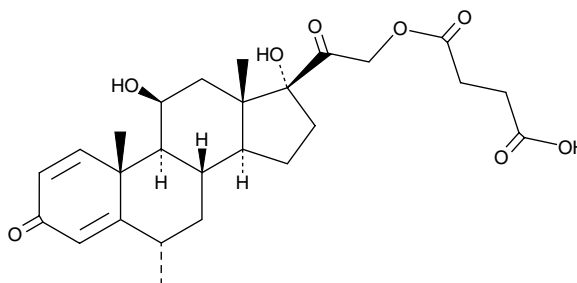
# Product Information



## 6 $\alpha$ -Methylprednisolone 21-hemisuccinate

Item No. 11800

**CAS Registry No.:** 2921-57-5  
**Formal Name:** 21-(3-carboxy-1-oxopropoxy)-11 $\beta$ ,17-dihydroxy-6 $\alpha$ -methyl-pregna-1,4-diene-3,20-dione  
**MF:** C<sub>26</sub>H<sub>34</sub>O<sub>8</sub>  
**FW:** 474.6  
**Purity:**  $\geq$ 98%  
**Stability:**  $\geq$ 2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:**  $\lambda_{\text{max}}$ : 243 nm



### Laboratory Procedures

For long term storage, we suggest that 6 $\alpha$ -methylprednisolone 21-hemisuccinate be stored as supplied at -20°C. It should be stable for at least two years.

6 $\alpha$ -Methylprednisolone 21-hemisuccinate is supplied as a crystalline solid. A stock solution may be made by dissolving the 6 $\alpha$ -methylprednisolone 21-hemisuccinate in the solvent of choice. 6 $\alpha$ -Methylprednisolone 21-hemisuccinate is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of 6 $\alpha$ -methylprednisolone 21-hemisuccinate in these solvents is approximately 5 and 3 mg/ml, respectively.

6 $\alpha$ -Methylprednisolone 21-hemisuccinate is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 6 $\alpha$ -methylprednisolone 21-hemisuccinate should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. 6 $\alpha$ -Methylprednisolone 21-hemisuccinate has a solubility of approximately 0.5 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.

Methylprednisolone is a synthetic glucocorticoid that has anti-inflammatory and immunosuppressant effects through the glucocorticoid receptor.<sup>1</sup> The methyl group reduces specific binding to corticosteroid-binding globulin, which may allow better tissue penetration, compared to that of prednisolone.<sup>1</sup> 6 $\alpha$ -Methylprednisolone 21-hemisuccinate is a prodrug for methylprednisolone.<sup>2</sup> This compound has superior water solubility compared to the active glucocorticoid.<sup>3</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. Vree, T.B., Lagerwerf, A.J., Verwey-van Wissen, C.P., *et al.* High-performance liquid chromatography analysis, preliminary pharmacokinetics, metabolism and renal excretion of methylprednisolone with its C6 and C20 hydroxy metabolites in multiple sclerosis patients receiving high-dose pulse therapy. *J. Chromatogr. B* **732**, 337-348 (1999).
3. Rao, V.M., Nerurkar, M., Pinnamaneni, S., *et al.* Co-solubilization of poorly soluble drugs by micellization and complexation. *Int. J. Pharm.* **319**, 98-106 (2006).

### Related Products

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

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