



# 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

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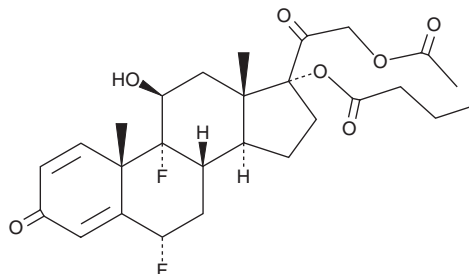
# PRODUCT INFORMATION



## Difluprednate

Item No. 23776

**CAS Registry No.:** 23674-86-4  
**Formal Name:** 21-(acetyloxy)-6 $\alpha$ ,9-difluoro-11 $\beta$ -hydroxy-17-(1-oxobutoxy)-pregna-1,4-diene-3,20-dione  
**Synonym:** W-6309  
**MF:** C<sub>27</sub>H<sub>34</sub>F<sub>2</sub>O<sub>7</sub>  
**FW:** 508.6  
**Purity:**  $\geq$ 98%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:**  $\geq$ 2 years



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

### Laboratory Procedures

Difluprednate is supplied as a solid. A stock solution may be made by dissolving the difluprednate in the solvent of choice, which should be purged with an inert gas. Difluprednate is slightly soluble in methanol.

### Description

Difluprednate is a synthetic glucocorticoid that potently activates the glucocorticoid receptor ( $K_i = 78$  pM).<sup>1</sup> *In vivo*, ocular administration of difluprednate (0.05% w/v) increases intraocular pressure in sheep.<sup>2</sup> Formulations containing difluprednate have been used to treat diabetic macular edema and inflammation following cataract surgery.

### References

1. Tajika, T., Waki, M., Tsuzuki, M., *et al.* Pharmacokinetic features of difluprednate ophthalmic emulsion in rabbits as determined by glucocorticoid receptor-binding bioassay. *J. Ocul. Pharmacol. Ther.* **27(1)**, 29-34 (2011).
2. Borrás, T., Buie, L.K., and Spiga, M.G. Inducible scAAV2.GRE.MMP1 lowers IOP long-term in a large animal model for steroid-induced glaucoma gene therapy. *Gene Ther.* **23(5)**, 438-449 (2016).

#### 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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