# **PRODUCT** INFORMATION



Fluorometholone

Item No. 9000157

CAS Registry No.: Formal Name:	426-13-1 9-fluoro-11β,17-dihydroxy-6α-	0
	methyl-pregna-1,4-diene-3,20-dione	HO
Synonyms:	NSC 33001, U-8614	Ť Ť \
MF:	$C_{22}H_{29}FO_4$	
FW:	376.5	
Purity:	≥98%	
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥4 years	i
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## Laboratory Procedures

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

## Description

Fluorometholone is a synthetic glucocorticoid that binds to glucocorticoid receptors ( $IC_{50}$  = 1.5 nM;  $K_d$  = 2.8 nM in a radioligand binding assay).<sup>1,2</sup> Fluorometholone (0.01%) decreases survival of cultured corneal epithelial cells and inhibits their migration in a scratch assay following 12 hours of treatment.<sup>3</sup> Formulations containing fluorometholone have been used for the treatment of eye inflammation.

## References

- 1. Southren, A.L., Dominquez, M.O., Gordon, G.G., et al. Nuclear translocation of the cytoplasmic glucocorticoid receptor in the iris-ciliary body and adjacent corneoscleral tissue of the rabbit following topical administration of various glucocorticoids. A rapid screening method for glucocorticoid activity. Invest. Ophthalmol. Vis. Sci. 24(2), 147-152 (1983).
- 2. Lin, M.T. Demonstration of specific glucocorticoid binding sites in bovine cornea. Exp. Eye Res. 38(4), 333-339 (1984).
- 3. Lee, L.S., Kim, Y.H., and Park, Y.M. The toxicity of nonsteroidal anti-inflammatory eye drops against human corneal epithelial cells in vitro. J. Korean Med. Sci. 30(12), 1856-1864 (2015).

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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