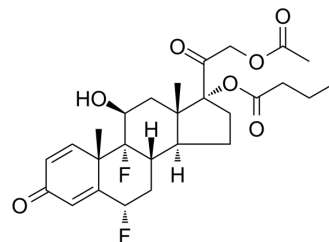


## Difluprednate

<b>Cat. No.:</b>	HY-17569		
<b>CAS No.:</b>	23674-86-4		
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>34</sub> F <sub>2</sub> O <sub>7</sub>		
<b>Molecular Weight:</b>	508.55		
<b>Target:</b>	Phospholipase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (491.59 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9664 mL	9.8319 mL	19.6637 mL
	5 mM	0.3933 mL	1.9664 mL	3.9328 mL
	10 mM	0.1966 mL	0.9832 mL	1.9664 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: 2.5 mg/mL (4.92 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (4.09 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (4.09 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Difluprednate is a topical corticosteroid, which is thought to act by the induction of phospholipase A2 inhibitory proteins (lipocortins). Difluprednate is used for the symptomatic treatment of inflammation and pain associated with ocular surgery.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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