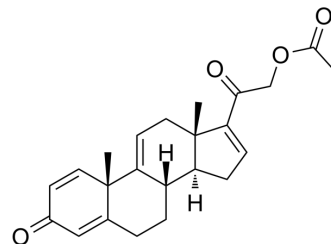


## 21-Acetoxypregna-1,4,9(11),16-tetraene-3,20-dione

<b>Cat. No.:</b>	HY-136340		
<b>CAS No.:</b>	37413-91-5		
<b>Molecular Formula:</b>	C <sub>23</sub> H <sub>26</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	366.45		
<b>Target:</b>	Glucocorticoid Receptor; NF-κB		
<b>Pathway:</b>	GPCR/G Protein; NF-κB		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 100 mg/mL (272.89 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7289 mL	13.6444 mL	27.2889 mL
	5 mM	0.5458 mL	2.7289 mL	5.4578 mL
	10 mM	0.2729 mL	1.3644 mL	2.7289 mL

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

### BIOLOGICAL ACTIVITY

#### Description

21-Acetoxypregna-1,4,9(11),16-tetraene-3,20-dione is an intermediate of delta 9,11 steroids synthesis, for example, Vamorolone (HY-109017). The delta 9,11 steroids are modifications of glucocorticoids and has anti-inflammatory properties. The delta 9,11 steroids are agents for protection against cell damage (lipid peroxidation) and inhibition of neovascularization<sup>[1]</sup>.

#### In Vitro

Δ9,11 derivatives are designed and developed to stably incorporate into cell membranes and inhibit lipid peroxidation without glucocorticoid or mineralocorticoid activities, thus avoiding side effects associated with traditional corticosteroids [1].

VBP15 acts as a lead compound due to potent NF-κB inhibition and GR translocation similar to prednisone and dexamethasone, lack of transactivation properties, and good bioavailability<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

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

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