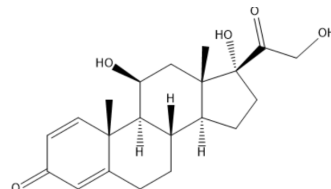


## Prednisolone (Standard)

<b>Cat. No.:</b>	HY-17463R
<b>CAS No.:</b>	50-24-8
<b>Molecular Formula:</b>	C <sub>21</sub> H <sub>28</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	360.44
<b>Target:</b>	Glucocorticoid Receptor; Endogenous Metabolite
<b>Pathway:</b>	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Metabolic Enzyme/Protease
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 62.5 mg/mL (173.40 mM; Need ultrasonic)  
 H<sub>2</sub>O : 0.1 mg/mL (0.28 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.7744 mL	13.8719 mL	27.7439 mL
	5 mM	0.5549 mL	2.7744 mL	5.5488 mL
	10 mM	0.2774 mL	1.3872 mL	2.7744 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Prednisolone (Standard) is the analytical standard of Prednisolone. This product is intended for research and analytical applications. Prednisolone is a potent, orally active corticosteroid and a glucocorticoid. Prednisolone possesses about four times the anti-inflammatory activity of hydrocortisone while causing less salt and water retention. Prednisolone can be used for ocular, anti-inflammatory research<sup>[1][2]</sup>.

### CUSTOMER VALIDATION

- Cell Commun Signal. 2019 Aug 14;17(1):94.
- Cancers (Basel). 2022 Oct 19;14(20):5127.
- Drug Test Anal. 2020 Aug 27.
- Chem Biodivers. 2020 May;17(5):e2000056.

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See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

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

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