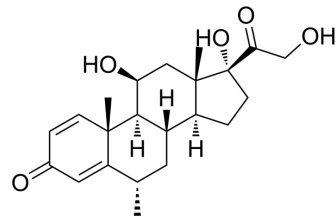


## Methylprednisolone (Standard)

<b>Cat. No.:</b>	HY-B0260R
<b>CAS No.:</b>	83-43-2
<b>Molecular Formula:</b>	C <sub>22</sub> H <sub>30</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	374.47
<b>Target:</b>	Glucocorticoid Receptor; Autophagy; SARS-CoV; Bacterial
<b>Pathway:</b>	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Autophagy; Anti-infection
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (333.81 mM; ultrasonic and warming and heat to 60°C)  
 H<sub>2</sub>O : < 0.1 mg/mL (ultrasonic) (insoluble)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.6704 mL	13.3522 mL	26.7044 mL
	5 mM	0.5341 mL	2.6704 mL	5.3409 mL
	10 mM	0.2670 mL	1.3352 mL	2.6704 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Methylprednisolone (Standard) is the analytical standard of Methylprednisolone. This product is intended for research and analytical applications. Methylprednisolone is a synthetic corticosteroid with anti-inflammatory and immunomodulating properties. Methylprednisolone improve severe or critical COVID-19 by activating ACE2 and reducing IL-6 levels<sup>[3]</sup>.

### CUSTOMER VALIDATION

- Nucleic Acids Res. 2021 Jan 8;49(D1):D11113-D11121.
- Int J Biol Sci. 2020 Jun 27;16(13):2382-2391.
- iScience. 2023 Apr 5,23.
- Drug Des Devel Ther. 2022, 16: 3929-3946.
- Exp Cell Res. 2020 Aug 1;393(1):112054.

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

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