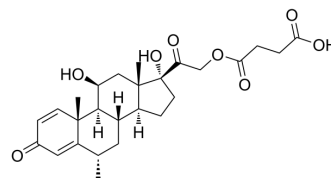


## Methylprednisolone succinate

<b>Cat. No.:</b>	HY-B1900
<b>CAS No.:</b>	2921-57-5
<b>Molecular Formula:</b>	C <sub>26</sub> H <sub>34</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	474.54
<b>Target:</b>	Glucocorticoid Receptor; Bacterial
<b>Pathway:</b>	Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Anti-infection
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (210.73 mM)

\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.1073 mL	10.5365 mL	21.0730 mL
	5 mM	0.4215 mL	2.1073 mL	4.2146 mL
	10 mM	0.2107 mL	1.0537 mL	2.1073 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (5.27 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Methylprednisolone succinate is a synthetic glucocorticoid and widely used as an anti-inflammatory agent.

#### IC<sub>50</sub> & Target

glucocorticoid receptor<sup>[1]</sup>

### REFERENCES

[1]. Marchant A, et al. Methylprednisolone differentially regulates IL-10 and tumour necrosis factor (TNF) production during murine endotoxaemia. Clin Exp Immunol. 1996

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Oct;106(1):91-6.

[2]. Diem R, et al. Methylprednisolone increases neuronal apoptosis during autoimmune CNS inflammation by inhibition of an endogenous neuroprotective pathway. J Neurosci. 2003 Aug 6;23(18):6993-7000.

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

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