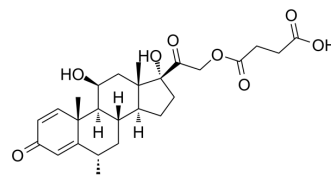


Methylprednisolone succinate

Cat. No.:	HY-B1900
CAS No.:	2921-57-5
Molecular Formula:	C ₂₆ H ₃₄ O ₈
Molecular Weight:	474.54
Target:	Glucocorticoid Receptor
Pathway:	GPCR/G Protein
Storage:	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.

IC₅₀ & Target

glucocorticoid receptor^[1]

REFERENCES

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

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.

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

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