

Cyclosporin

Cat. No.:	HY-100731
CAS No.:	79217-60-0
Target:	Others
Pathway:	Others
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

Cyclosporin

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (Infinity mM); Suspended solution; Need ultrasonic 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Cyclosporin is a cyclic decapeptide that could be isolated from the soil fungi <i>Tolypocladium inflatum</i> . Cyclosporin is an immunosuppressant thought to bind to cyclophilin in T-lymphocytes ^[1] .
In Vitro	Cyclosporin (0-2500 nM; <i>Ppia</i> ^{-/-} cells) inhibits proliferation of <i>Ppia</i> ^{+/+} or <i>Ppia</i> ^{+/-} splenocytes to a similar degree, with an IC ₅₀ value of 25 nM, the IC ₅₀ of <i>Ppia</i> ^{-/-} splenocytes has at least 10-fold higher ^[1] . Cyclosporin (0-750 nM; <i>Ppia</i> ^{-/-} cells) inhibits gene expression in <i>Ppia</i> ^{-/-} cells ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Colgan J, et, al. Cyclophilin A-deficient mice are resistant to immunosuppression by cyclosporine. *J Immunol.* 2005 May 15;174(10):6030-8.

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

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