

Cyclosporin A

Catalog No: tcsc2761



Available Sizes

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Size: 5g

Size: 10g



Specifications

CAS No:

59865-13-3

Formula:

$C_{62}H_{111}N_{11}O_{12}$

Pathway:

Others

Target:

Others

Purity / Grade:

>98%

Solubility:

DMSO : 62.5 mg/mL (51.97 mM; Need ultrasonic); H₂O :

Alternative Names:

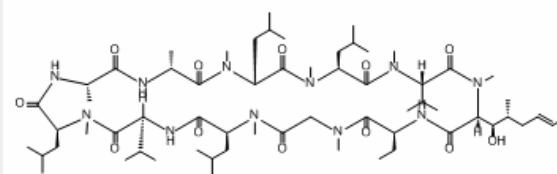
Cyclosporine;Ciclosporin

1202.61

Cyclosporin A is an immunosuppressant which binds to the cyclophilin and inhibits phosphatase activity of **calcineurin** with an **IC₅₀** of 5 nM.

In Vitro: Cyclosporin A is able to bind with the cyclophilin in T cells^[1]. Cyclosporin A works by forming a Cyclophilin-Cyclosporin A complex to inhibit calcineurin^[2]. Cyclosporin A exhibits inhibitory effect on calcineurin with an IC₅₀ of 7 nM^[3]. Cyclosporin A suppresses the nuclear translocation of NF-AT^[4]. Cyclosporin A shows an effect on mitochondria via preventing the MTP from opening with an IC₅₀ of 39 nM^[5].

In Vivo: Cyclosporin A has immunosuppressive activity, and is active via parenteral and p.o. administration in mice, rat and guinea pigs^[6]. Cyclosporin A can be used in organ transplantation to prevent rejection^[7].



Copyright 2021 Taiclone Biotech Corp.