Cyclosporin A

Immunosuppressant

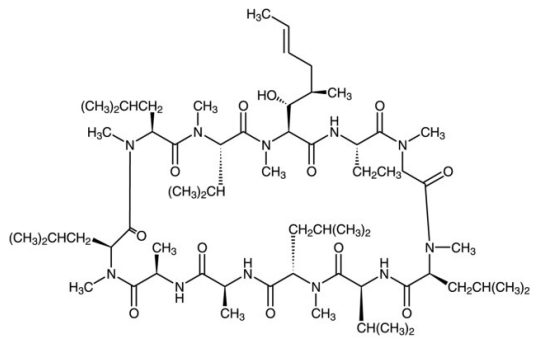
Cyclosporin A (CsA) is an immunosuppressant that has revolutionized organ transplantation through its use in the prevention of graft rejection. CsA binds to cyclophilin and suppresses its proline rotamase activity. The CsA-cyclophilin complex inhibits calcineurin, a type 2B phosphatase. It is an important diagnostic tool for the characterization of permeability transition-related phenomena. It inhibits mitochondrial permeability transition pore opening however, pore inhibition becomes less efficient at increasing Ca^{2+} loads and inhibition is transient. Inhibits staurosporin-induced apoptosis in cultured neural cells and rotenone-induced apoptosis in PC-12 cells. Inhibits cytochrome c release from mitochondria. Inhibits nitric oxide (NO) synthesis.

Citations: 36 View Online »

Ordering Information Order Online »

BML-A195-0100	100mg
BML-A195-0500	500mg

Manuals, SDS & CofA View Online »


H3C
HO
CH3
(CH3)2CHCH2
CH3
H3C
N
O
N
O
N
H
O
N
CH3
O
(CH3)2CH
CH3
O
CH2CH3
O
(CH3)2CHCH2
O
CH2CH(CH3)2
N
CH3
CH3
O
H
N
H3C
N
O
O
H
N
CH3
O
N
CH3
O
H
N
CH2CH(CH3)2
O
CH(CH3)2

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Store, as supplied, at -20°C for up to 1 year. Store solutions at -20°C for up to 3 months.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	CsA
Appearance	White to off-white powder.
CAS	59865-13-3
Couple Target	NOS, Serine/threonine-protein phosphatase
Couple Type	Inhibitor
Formula	$C_{62}H_{111}N_{11}O_{12}$
MW	1202.6
Purity	≥98% (Assay)
Solubility	Soluble in DMSO (25mg/ml), methanol, 100% ethanol (25mg/ml), acetone or petroleum ether; insoluble in water.
Source	Isolated from *Fusarium solani*

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