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DATASHEET

Cyclosporine

Catalogue No.:abx076775

Cyclosporine is a small molecule. Cyclosporin A is a hydrophobic cyclic peptide, and is a potent immune-suppressant and antifungal. It acts via its ability to bind to a family of intracellular proteins (1). The immunosuppressant action is mediated by the complex Cyclosporin-A-cyclophilin that specifically inhibits the Ca2+/calmodulin-dependent serine-threonine-protein phosphatase-2B. This is turn inhibits calcineurin and promotes dephosphorylation of transcription factor NF-AT and T-cell activation (2).

Target: Cyclosporine

Origin: Synthetic

Purity: >99%

Form: White Solid

CAS Number: 59865-13-3

Storage: Store at -20 °C.

Molecular Weight: 1202.63

Molecular Formula: $C_{62}H_{111}N_{11}O_{12}$

SMILES: CC[C@H]1C(=O)N(CC(=O)N([C@H](C(=O)N[C@H](C(=O)N([C@H](C(=O)N[C@H](C(=O)N[C@@H](C(=O)N([C@H](C(=O)N([C@H](C(=O)N([C@H](C(=O)N1)[C@@H]([C@H](C)C/C=C/C)O)C)C(C)C)C)CC(C)C)C)CC(C)C)C)CC(C)C)C)C)CC(C)C)C)C)CC(C)C)C

Note: This product is for research use only.