Rapamycin

Catalog Number: 5318893

Product Information

Synonyms: Sirolimus, Rapamune, AY 22989
Molecular Formula: \(C_{51}H_{79}NO_{13}\)
Molecular Weight: 914.2
CAS Number: 53123-88-9
Purity: ≥95%
Applications: FA
Formulation: Crystalline solid
Storage: Product should be kept at -20°C.

Description

Rapamycin was first evaluated as an antifungal agent, but is now studied for its potent immunosuppressive and antiproliferative properties. It forms a complex with FKBP12 and directly binds to mTORC1, inhibiting the functions of the mTOR pathway. Rapamycin is reported to block protein synthesis, arrest cell cycle progression, and inhibit IL-2 signal transduction mechanisms.

Preparation & Storage

Soluble in organic solvents such as ethanol or DMSO. DMSO up to 10mg/ml.

References

