

MP Biomedicals, LLC

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TECHNICAL INFORMATION

Catalog Number: 159346

Rapamycin

Structure:

Molecular Formula: C₅₁H₇₉NO₁₃

Molecular Weight: 914.20

CAS # 53123-88-9

Physical Appearance: White to off white powder

Description: A macrocyclic antibiotic which has been shown to selectively block signaling, leading to the activation of P70 S6 kinase. Possesses potent immunosuppressant activity.

Purity: 98.7%

Solubility: Soluble in ether, chloroform, acetone, DMF, methanol (25 mg/ml - clear, colorless solution) or DMSO; very sparingly soluble in hexane and petr ether; insoluble in water

References:

- Terada, N., et. al., J. Biol. Chem., v. 268, 12062 (1993)
- Price, D.J., et. al., Science, v. 257, 973 (1992)
- Seghal, S.N., et al., J. Antibiot., v. 28, 727 (1975).