Rapamycin

PRODUCT ANALYSIS SHEET

Catalog Number: PHZ1233
Lot Number: See product label
Quantity: 1.0 mg
Appearance: Colorless waxy solid
Molecular Formula: C_{51}H_{79}NO_{13}
Molecular Weight: 914.2
Purity: 98%, as assessed by TLC

Summary: Rapamycin is a member of a family of macrolide immunosuppressants that bind to and inhibit the FK506 binding protein (FKBP) Proline rotamase. By binding simultaneously to FKBP12 and FRAP (FKBP12-Rapamycin-Associated-Protein), rapamycin does not inhibit the FRAP PI 4-kinase activity, but is observed to inhibit FRAP autophosphorylation, an effect which may be responsible for rapamycin’s inhibition of signaling leading to the activation of p70/85 S6 kinase. Rapamycin is unique in its ability to inhibit lymphokine-induced cell proliferation at the G1 to S phase. This compound also irreversibly arrests *Saccharomyces cerevisiae* cells in the G1 phase.

Solubility: Soluble in DMSO at a concentration of 25 mg/mL.
Sterility: This product is not sterile.
Storage: Store, as supplied, at –20°C. Upon solubilization, apportion into working aliquots and store at –20°C. Avoid repeated freeze/thaw cycles. Solutions are stable at –20°C for up to three months.
Expiration Date: Expires one year from date of receipt when stored as instructed.
Related Products: Akt/PKB [pS^{173}] antibody, Cat. # 44-622G
ERK1&2 [pT^{185}/{187}] antibody, Cat. # 44-680G

References:

Caution: Avoid contact with eyes, skin, and mucous membranes. Wear protective clothing when handling this product. Not for human use.

For research use only. CAUTION: Not intended for human or animal therapeutic or diagnostic use.

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PI PHZ1233

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