



CERTIFICATE OF ANALYSIS

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| PRODUCT: | Manumycin A C ₃₁ H ₃₈ N ₂ O ₇ , M.W. 550.7, CAS# [52665-74-4] |
| PRODUCT NUMBER: | M-1052 |
| LOT NUMBER: | B1065 |
| SOURCE/HOST: | Isolated from <i>Streptomyces parvulus</i> . |
| APPEARANCE: | Mustard yellow powder |
| SOLUBILITY: | Soluble in methanol or DMSO; insoluble in water. |
| PURITY (HPLC): | >98% |
| IDENTITY: | Determined by ¹ H-NMR. |
| PRODUCT DESCRIPTION: | Potent, selective and competitive inhibitor of Ras farnesyltransferase. Does not affect geranylgeranyltransferase. Inhibition is competitive with respect to farnesyl pyrophosphate and non-competitive with respect to Ras. Inhibits neutral sphingomyelinase. |
| STORAGE & HANDLING: | Keep cool and dry at -20°C. PROTECT FROM LIGHT! |

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: KT