

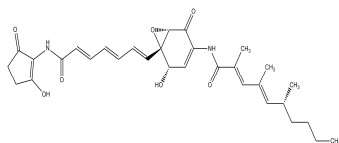
PRODUCT: Manumycin A

ALTERNATE NAME: NSC-622141; UFC 1C

CATALOG #: 2333-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:

MOLECULAR FORMULA: C₃₁H₃₈N₂O₇

MOLECULAR WEIGHT: 550.64

CAS NUMBER: 52665-74-4

APPEARANCE: Yellow to brown solid

SOLUBILITY: DMSO

PURITY: ≥96% HPLC

STORAGE: At -20°C. Protect from air and light

DESCRIPTION: An antibiotic isolated from *Streptomyces parvulus*. A potent, selective and competitive cell permeable farnesyltransferase (FTase) inhibitor (IC₅₀ = 30 nM). Does not affect geranylgeranyltransferase (GGTase) (IC₅₀ = 180 μM). Blocks insulin-induced MAP kinase activation in rat cardiac myocytes (19 μM). Inhibition is competitive with respect to farnesyl pyrophosphate and non-competitive with respect to Ras.

REFERENCES: De Leo, L., *et al.* (2010). *Pharmacol. Res.* **61**, 506; Hara, M., *et al.* (1993). *Proc. Natl. Acad. Sci. USA* **90**, 2281;

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Andrastin A (Cat. No. 2149-250, 1000)

Tipifarnib, Free base (Cat. No. 2296-1, 5)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**