BVT-0091

**Manumycin A**

BVT-0091-M001 1 mg  
BVT-0091-M005 5 mg  
BVT-0091-M010 10 mg  

**Formula**  \( C_{31}H_{38}N_2O_7 \)  
**MW**  550.6  
**CAS**  52665-74-4  

**Handling / Storage**  
**Shipping**  BLUE ICE  
**Short Term Storage**  +4°C  
**Long Term Storage**  -20°C  

Protect from light.

**Use / Stability**  
Stable for at least 1 year after receipt when stored at -20°C. After reconstitution protect from light at -20°C.

MSDS available at www.adipogen.com or upon request.

**Product Specifications**  
**Source/Host**  Isolated from *Streptomyces parvulus*.  
**Purity**  ≥ 96% (HPLC)  
**Identity**  Determined by \(^1\)H-NMR.  
**Appearance**  Yellow to brown powder.  
**Solubility**  Soluble in DMSO or methanol; insoluble in water.

**Product Description**

- Antibiotic.
- Potent, selective and competitive cell permeable rasfarnesyltransferase inhibitor (IC\(_{50} = 30\) nM).
- Does not affect geranylgeranyltransferase (IC\(_{50} = 180\) µM).
- Inhibition is competitive with respect to farnesyl pyrophosphate and non-competitive with respect to Ras.
- Neutral sphingomyelinase inhibitor.
- Blocks insulin-induced MAP kinase activation in rat cardiac myocytes (19 µM).

**WARNING:** Intended for research use only. This product is not intended or approved for human, diagnostics, therapeutic or veterinary use. Use of this product for human or animal testing is extremely hazardous and may result in disease, severe injury, or death. **MATERIAL SAFETY DATA:** Review the complete Material Safety Data Sheet before use.

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**For Local Distributors see**  
www.adipogen.com
Product Specific References

1. Identification of Rasfarnesyltransferase inhibitors by microbial screening: M. Hara et al.; PNAS 90, 2281 (1993)

2. Inhibitors of Rasfarnesyltransferases: F. Tamanoi; TIBS 18, 349 (1993), (Review)


4. Protein kinase C, but not tyrosine kinases or Ras, plays a critical role in angiotensin II-induced activation of Raf-1 kinase and extracellular signal-regulated protein kinases in cardiac myocytes: Y. Zou et al.; J. Biol. Chem. 271, 33592 (1996)


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