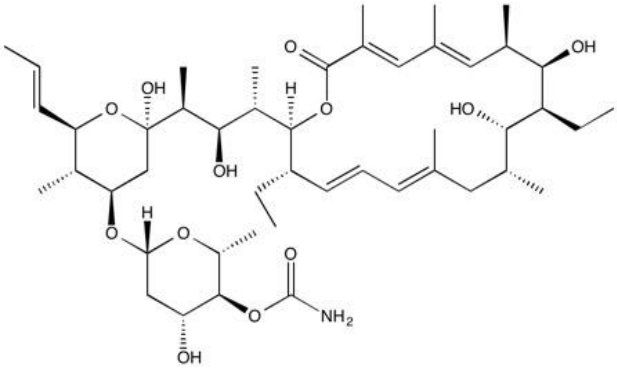
**Catalog # 10-2905**
**Concanamycin A**
CAS# 80890-47-7
Folimycin
Lot # X101407




A potent and specific inhibitor of the vacuolar (V-type) $H^+$-ATPase which can induce apoptotic cell death in various cell lines.[1,2] Inhibits cell surface expression of virus envelope glycoproteins.[3] Dramatically increases the rate of extracellular vesicle release from a variety of cell types.[4] Inhibits autophagy by blocking lysosomal acidification.[5]


1) Nishihara *et al*. (1995), *Specific inhibitors if vacuolar type H(+)-ATPases induce apoptotic cell death*; Biochem. Biophys, Res. Commun., **212** 255
2) Hong *et al*. (2006), *Nitric oxide production by the vacuolar-type (H+)-ATPase inhibitors bafilomycin A1 and concanamycin A and its possible role in apoptosis in RAW 264.7 cells*; J. Pharmacol. Exp. Ther., **319** 672
3) Muroi *et al*. (1993), *Folimycin (concanamycin A), a specific inhibitor of V-ATPase, blocks intracellular translocation of the glycoprotein of vesicular stomatitis virus before arrival to the Golgi apparatus*; Cell Struct. Function, **18** 139
4) Cashikar and Hanson (1987), *A cell-based assay for CD63-containing extracellular vesicles*; PLoS One, **14** e0220007
5) Gradzka *et al*. (2018), *Inhibitor of apoptosis proteins are required for effective fusion of autophagosomes with lysosomes*; Cell Death Dis., **9** 529


## PHYSICAL DATA

| | |
|---|---|
| Molecular Weight: | 866.09 |
| Molecular Formula: | $C_{46}H_{75}NO_{14}$ |
| Purity: | >98% by HPLC/TLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (50 mg/ml) |
| Physical Description: | White solid or lyophilized solid |
| Storage and Stability: | Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month. |

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