

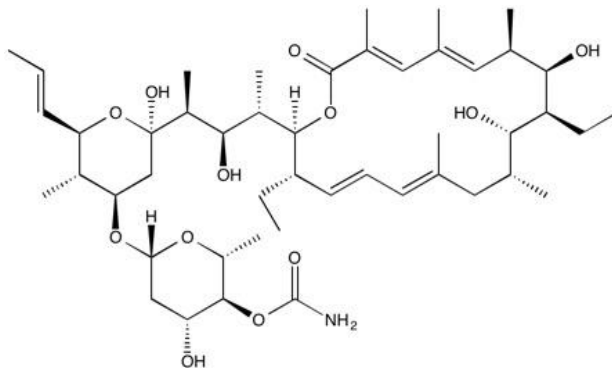
**Catalog # 10-2905**

**Concanamycin A**

CAS# 80890-47-7

Folimycin

Lot # X101406



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

- 1) Nishihara *et al.* (1995), *Specific inhibitors of 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<sup>+</sup>)-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 <sub>46</sub> H <sub>75</sub> NO <sub>14</sub>
Purity:	98% by HPLC/TLC
	NMR: (Conforms)
Solubility:	DMSO
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.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**