**BioVision** 2/13 RELATED PRODUCTS:

PRODUCT: Valinomycin

**ALTERNATE NAME**: Cyclo(D-α-hydroxyisovaleryl-D-valyl-

L-lactoyl-L-valyl-D-α-hydroxyisovaleryl-D-valyl-L-lactoyl-L-valyl-D-

α-hydroxyisovaleryl-D-valyl-L-lactoyl-L-valyl)

**CATALOG #:** 2238-10, 50

**AMOUNT:** 10 mg, 50 mg

STRUCTURE:

MOLECULAR FORMULA: C<sub>54</sub>H<sub>90</sub>N<sub>6</sub>O<sub>18</sub>

MOLECULAR WEIGHT: 1111.32

**CAS NUMBER:** 2001-95-8

APPEARANCE: A white solid

SOLUBILITY: DMSO (25 mM) or EtOH (25 mM)

PURITY: ≥99%

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

**DESCRIPTION:** A highly selective  $K^+$ - ionophore. It binds potassium ions ( $K^+$ ) and

facilitates their transfer across lipid bilayers. Inhibits  $Ca^{2^+}$ -ATPase activity and promotes cell death by mitochondrial swelling and autophagic processes, but not apoptosis. Antagonizes endothelin-induced vasoconstriction ( $IC_{50} = 0.3 \mu M$ ). Valinomycin is a large macrocyclic toxic molecule peptidic potassium ion transporter that

inhibits SARS-CoV in vitro.

**REFRENCE:** Klein, B., et al. (2011). Apoptosis **16**, 1101-1117.

**HANDLING:** Do not take internally. Wear gloves and mask when handling

the product! Avoid contact by all modes of exposure.

Ionomycin, Calcium Salt (Cat. No. 1566-5) Ionomycin, Free Acid (Cat. No. 1565-5) Monensin Methyl Ester (Cat. No. 1808-50, 250)

Nigericin sodium salt (Cat. No. 2096-5, 25)

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

humans

Tel: 408-493-1800 | Fax: 408-493-1801 www.biovision.com | tech@biovision.com