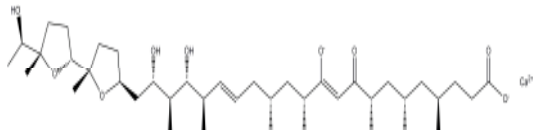


## Ionomycin, Calcium Salt

CATALOG #: 1566-1, 5

AMOUNT: 1 mg, 5 mg

MOLECULAR FORMULA:  $C_{41}H_{70}O_9 \cdot Ca^{2+}$ 

MOLECULAR WEIGHT: 747.10

CAS NUMBER: 56092-82-1

PURITY:  $\geq 99\%$ 

APPEARANCE: Powder form

SOLUBILITY: Soluble in DMSO

STORAGE CONDITIONS: -20°C in the dark. Do not expose to sunlight or fluorescent lights for extended periods.

**BACKGROUND:** Antibiotic that acts as a potent and selective calcium ionophore; more effective than A23187. Ionomycin binds  $Ca^{2+}$  in the 7.0-9.5 pH range with the resulting complex exhibiting intense UV absorption. Ionomycin induces apoptosis in immature B cell lines and in cultured embryonic rat cortical neurons. More mature B cell lines do not undergo apoptosis, but are arrested in the G1 phase of the cell cycle.

**CAUTION:** Tumor promoter. Do not ingest, swallow, or inhale. Do not get in eyes or on skin. Care should be taken to prevent contact through all routes of exposure.

**RELATED PRODUCTS:**

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)

Valinomycin (Cat. No. 2238-10, 50)

***For Research Use Only! Not to be used in humans***