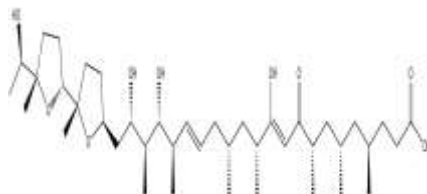


Ionomycin, free acid

CATALOG #: 1565-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{41}H_{72}O_9$

MOLECULAR WEIGHT: 709.02

CAS: [56092-81-01]

PURITY: $\geq 97\%$

APPEARANCE: Waxy solid

SOLUBILITY: Soluble in DMSO

STORAGE CONDITIONS: $-20^{\circ}C$ 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.