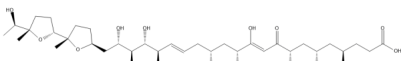


Data Sheet

Product Information

Catalog Number	BP22519
Product Name	Ionomycin
Description	Ionomycin is a potent, selective calcium ionophore and an antibiotic produced by <i>Streptomyces conglobatus</i> . Ionomycin is highly specific for divalent cations (Ca>Mg>Sr=Ba). Ionomycin promotes apoptosis. Ionomycin also induces the activation of protein kinase C (PKC).
In vitro	Ionomycin is a Calcium ionophore and an antibiotic produced by <i>Streptomyces conglobatus</i> . Addition of 2 μ M Ionomycin to LCLC 103H cells causes an instantaneous increase in intracellular Ca ²⁺ concentration from 50 to 180 nM. DNA and protein analysis in Ionomycin-treated cultures revealed DNA fragmentation and PARP cleavage to an 85-kDa fragment typical of caspase-mediated apoptosis. Necrosis could be detected in ~1-5% of the Ionomycin treated cells. Caspase activation in whole cells was followed by monitoring the increase in activity against Ac-DEVD-amc following Ionomycin treatment. Ionomycin-mediated cleavage and exosome release. Following Ionomycin exposure, medium conditioned by SKOV3ip cells had increased amounts of exosomes containing the L1-32 cleavage fragment. Ionomycin also phosphorylate p38 MAPK by Ca ²⁺ influx through SOCE, leading to suppression of TNF- α -induced NF- κ B phosphorylation.
CAS No.	56092-81-0
Chemical Formula	C ₄₁ H ₇₂ O ₉
Molecular Weight	709.01
Solubility	DMSO: 100 mg/mL (141.04 mM, Need ultrasonic)

Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

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