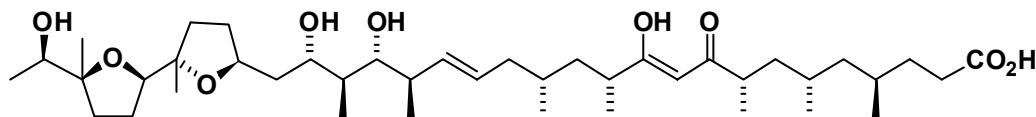


Ionomycin

Code: **BIA-I1261**

Pack sizes: **1 mg, 5 mg**



Synonyms : **SQ 23377, Antibiotic SQ 23377, EM 94, Antibiotic EM 94**

Specifications

CAS # : **56092-81-0**
Molecular Formula : **C₄₁H₇₂O₉**
Molecular Weight : **709.0**
Source : ***Streptomyces conglobatus***
Appearance : **Waxy solid**
Purity : **> 98% by HPLC**
Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

Application Notes

Ionomycin was isolated from *Streptomyces conglobatus* as a potent antibiotic selective for Gram +ve bacteria. During the isolation it was recognised that ionomycin exhibits a very high affinity and selectivity for calcium ions suggesting the metabolite acts as a calcium ionophore. More recently, ionomycin has been used in cell biology as a universal calcium ionophore to explore the role of calcium regulation in the cell.

References

1. Ionomycin, a new polyether antibiotic. Liu W-C. et al. J. Antibiot. 1978, 31, 815.
2. Characterization of ionomycin as a calcium ionophore. Liu C. M. & Herman T. E. J. Biol. Chem. 1978, 253, 5892.