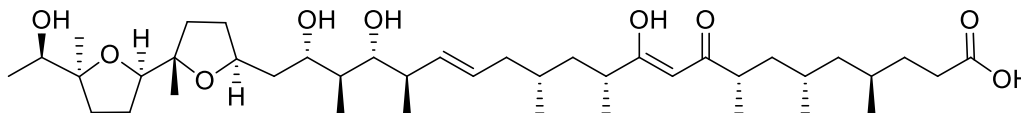


Ionomycin

Code No.: **BIA-I1261**

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



Synonyms : SQ 23377, EM 94

Specifications

CAS #	: 56092-81-0
Molecular Formula	: C₄₁H₇₂O₉
Molecular Weight	: 709
Source	: <i>Streptomyces conglobatus</i>
Appearance	: Waxy solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Ionomycin was isolated from *Streptomyces conglobatus* as a potent Gram positive antibiotic. During 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.