

Product Name:	Ionomycin
Product Number:	I003
CAS Number:	56092-81-0
Molecular Formula:	C ₄₁ H ₇₂ O ₉
Molecular Weight:	709.0
Appearance:	Waxy solid
Storage Conditions:	-20°C
Description:	<p>Ionomycin was isolated from <i>Streptomyces conglobatus</i> 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.</p> <p>Ionomycin is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
References:	<p>Ionomycin, a new polyether antibiotic. Liu W-C. et al. J. Antibiot. 1978, 31, 815.</p> <p>Characterization of ionomycin as a calcium ionophore. Liu C. M. & Herman T. E. J. Biol. Chem. 1978, 253, 5892.</p>