

### ★ Storage

Store at or below -20°C.  
For long term storage, stored as supplied at -20 °C.  
It should be stable for at least four years.

#### Contents

- Product Manual
- Ionomycin, Calcium Salt ≥98%

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

### ★ Shipping Condition

Ship with ice pack.

### ★ Description

Ionomycin, Calcium Salt is a selective calcium ionophore derived from *S. conglobatus* that mobilizes intracellular calcium stores. <sup>1</sup> It is used as a research tool to raise the intracellular level of calcium, to study calcium transport across biological membranes, and to stimulate the intracellular production of cytokines. <sup>2-4</sup> This compound is supplied as a calcium salt for more stable storage. It is also available as a solution in ethanol.

### ★ Solubility

Ionomycin, Calcium Salt is supplied as a crystalline solid. A stock solution may be made by dissolving the Ionomycin, Calcium Salt in the solvent of choice.

Ionomycin, Calcium Salt is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of Ionomycin, Calcium Salt in these solvents is approximately 20, 1.6, and 1.2mg/ml, respectively.

Ionomycin, Calcium Salt is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ionomycin, Calcium Salt should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Ionomycin, Calcium Salt has solubility of approximately 0.5mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. Do not recommend storing the aqueous solution for more than one day.

### ★ CAS Number

56092-82-1

### ★ Formal Name

11,19R,21S-trihydroxy-4R,6S,8S,12R,14R,18R,20S-heptamethyl-22-[octahydro-5'S-[1R-hydroxyethyl]-2s,5'dimethyl[2,2'R-bifuran]-5S-yl]-9-oxo-10Z,16E-docosadienoic acid, calcium salt

### ★ Molecular Formula

C<sub>41</sub>H<sub>70</sub>O<sub>9</sub> • Ca

### ★ M.W.

747.1

### ★ Purity

≥ 98 %

### ★ Stability

≥ 4 years at -20°C.

### ★ Form

A crystalline solid

### ★ UV/Vis

λ max: 296 nm

