



# SZABO SCANDIC

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## Produktinformation



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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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# Ionomycin

Ca<sup>2+</sup> ionophore  
Catalog No. SIH-228



Discovery through partnership | Excellence through quality

## Overview

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### Product Name

Ionomycin

### Description

Ca<sup>2+</sup> ionophore

### Purity

>98%

### CAS No.

56092-81-0

### Molecular Formula

C<sub>11</sub>H<sub>11</sub>O<sub>1</sub>

### Molecular Weight

709.01

## Properties

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### Storage Temperature

-20°C

### Shipping Temperature

Shipped Ambient

### Product Type

Inducer

### Solubility

Soluble to 10 mM in ethanol and to 10 mM in DMSO

### Source

Synthetic

### Appearance

Colorless Solid

### SMILES

C[C@H](CCC(=O)O)C[C@H](C)C[C@H](C)C(=O)/C=C/[C@H](C)C[C@H](C)C/C=C/[C@@H](C)[C@H]([C@@H](C)[C@H](C)[C@@H]1CC[C@@](O1)(C)[C@H]2CC[C@@](O2)(C)[C@@H](C)O)O)O

### InChI

InChI=1S/C41H72O9/c1-25(21-29(5)34(43)24-35(44)30(6)22-27(3)20-26(2)14-15-38(46)47)12-11-13-28(4)39(48)31(7)36(45)23

## InChIKey

PGHMRUGBZOYCAA-OJFQOPKISA-N

## Safety Phrases

Classification: Caution: Substance not yet fully tested.

Safety Phrases:

S22 - Do not breathe dust

S24/25 - Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Hazard Phrases:

H302

## Cite This Product

Ionomycin (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SIH-228)

## Biological Description

### Alternative Names

(4R,6S,8S,10Z,12R,14R,16E,18R,19R,20S,21S)-11,19,21-Trihydroxy-22-((2S,2'R,5S,5'S)-5'-[(1R)-1-hydroxyethyl]-2,5'-dimethyloctahydro-2,2'-bifuran-5-yl)-4,6,8,12,14,18,20-heptamethyl-9-oxo-10,16-docosadienoic acid, Ionomycin calcium salt

### Research Areas

Cancer, Apoptosis

### PubChem ID

6434517

### Scientific Background

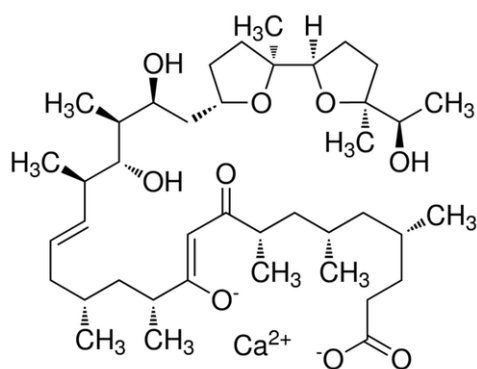
Ionomycin is a calcium ionophore used in research to raise the intracellular level of calcium and as a tool to understand calcium transport across biological membranes. It is also used to stimulate the intracellular production of the cytokines interferon, perforin, IL-2 and IL-4. It is more specific than A23187.

### References

1. Holmes A.G. Watt M.J., Carey A.L. And Febbraio M.A. (2004) *Metabolism*. 53(11): 1492-1495.
2. Abramov A.Y., Duchon M.R. (2003) *Cell Calcium*. 33(2): 101-112.

## Product Images

Chemical structure of Ionomycin (SIH-228), a Ca<sup>2+</sup> ionophore. CAS #: 56092-81-0.  
Molecular Formula: C<sub>41</sub>H<sub>70</sub>O<sub>9</sub>. Molecular Weight: 709.01 g/mol.



## Product Citations (0)

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Currently there are no citations for this product.

## Reviews

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There are no reviews yet.