

Ionophores

Ionophores have numerous biological and research applications facilitating the transport of ions across biological membranes. They are classified into carrier ionophores or channel-forming ionophores based on their mechanism of transport. They alter the electrochemical gradient and change the physiological state of cells. Well-known ionophore-antibiotics include Valinomycin, Gramicidin, Nigericin, Monensin and Monactin, which kill cells by altering ionic gradients. Ionophores such as Salinomycin, Nigericin and Lasolocid have shown potent anticancer activity. Many ionophores also serve as research tools to study ion transport and physiological processes. Ionomycin is used to study calcium flux in cells. Carbonyl Cyanide m-Chlorophenyl hydrazone, an uncoupler of oxidative phosphorylation is used in mitochondrial membrane potential assays. Ionomycin and Monensin are used in combination cocktails to induce cytokine production and inhibit intracellular transport. BioVision offers several types of ionophores for research and development, which have been well validated by researchers around the world.

Key Features :

- Highly Pure
- Cost-Effective
- Ion-Specific
- Available as ready-to-use cocktails for cell stimulation
- Bulk Quotes Available

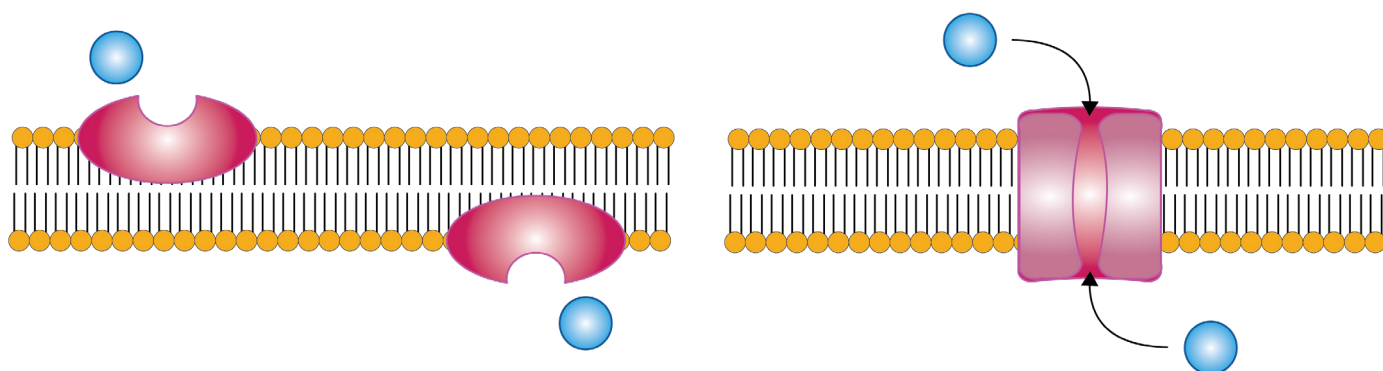


Figure: Transport of ions by a carrier ionophore and a channel-forming ionophore across a membrane.

Product Name	Cat. No.	Size	CAS. No.
A23187	1501	10 mg	52665-69-7
A-23187, 4-Bromo	2245	1 mg	76455-82-8
CA-1001	B2669	5 mg, 25 mg	58801-34-6
Carbonyl Cyanide m-Chlorophenylhydrazone	B2046	50 mg, 250 mg	555-60-2
EZSolution™ Ionomycin free acid	2309	5 mg	56092-81-0
Gramicidin	B1624	500 mg, 1 g, 5 g	1405-97-6
Gramicidin A	B2967	1 mg, 5 mg	11029-61-1
Ionomycin (Calcium salt)	1566	1 mg, 5 mg	56092-82-1
Ionomycin (free acid)	1565	1 mg, 5 mg	56092-81-0
Lasalocid A Sodium	B1587	5 mg, 25 mg	25999-20-6

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Toll Free: 800-891-9699 (US Only)

Product Name	Cat. No.	Size	CAS. No.
Monensin A Sodium	B1623	500 mg, 1 g, 5 g	22373-78-0
Monensin Methyl Ester	1808	50 mg, 250 mg	28636-21-7
Narasin	B3020	5 mg, 25 mg	55134-13-9
Nigericin sodium salt	2096	5 mg, 25 mg	28643-80-3
Salinomycin Sodium	B1584	25 mg, 100 mg	55721-31-8
Valinomycin	2238	10 mg, 50 mg	2001-95-8

Please visit www.BioVision.com for a comprehensive overview on Ionophores!