



Rare microbial metabolites for research

Diverse structures

High Purity

Competitively Priced

In Stock Now

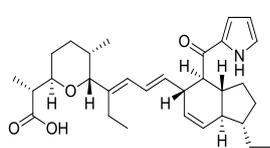
BioAustralis is a specialist manufacturer and supplier of microbial metabolites and semi-synthetic analogues for in vitro laboratory use:

- Metabolites for research in molecular biology, biological activity, mode of action and structure-activity relationships
- Rare and unusual metabolites for discovery and lead molecule identification

A complete listing of our products can be found at www.bioaustralis.com

MEMBRANE ACTIVES

Indanomycins

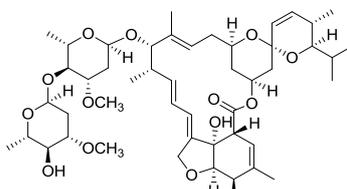


Indanomycin

Pyrrolic ionophores

Indanomycin is an unusual pyrrolic ionophore active against Gram positive bacteria and insects. Interestingly, indanomycin has antihypertensive properties. Indanomycin possesses affinity for both mono- and divalent ions, and has been reported as a growth promoter in ruminants.

Avermectins

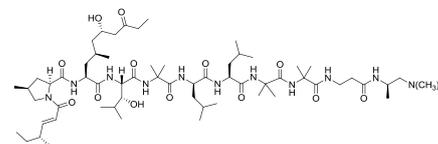


Avermectin B1b

Macrocyclic lactones

Avermectins and the related milbemycins bind selectively and with high affinity to glutamate-gated chloride ion channels which occur in invertebrate nerve and muscle cells. Compounds of this class may also interact with other ligand-gated chloride channels, such as those gated by the neurotransmitter GABA.

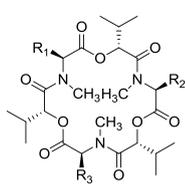
Leucinostatin A



Polypeptide ionophore

Leucinostatin A is the major component of an atypical nonapeptide complex produced by *Paecilomyces lilacinus*, first reported in 1973. Leucinostatins display broad bioactivity against Gram positive bacteria, fungi, plants and tumour cell lines. Leucinostatin A inhibits respiration by uncoupling oxidative phosphorylation and is potentiated by inhibitors such as venturicidin and oligomycin. More recently, interest in leucinostatin has focused on understanding its activity as an insulin-like growth factor I regulator, an ionophore, inhibitor of cell surface expression of viral glycoproteins and its anti-trypanosomal activity.

Enniatins

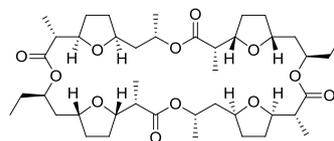


	R ₁	R ₂	R ₃
A	s-Bu	s-Bu	s-Bu
A ₁	i-Pr	s-Bu	s-Bu
B	i-Pr	i-Pr	i-Pr
B ₁	i-Pr	i-Pr	s-Bu
C	i-Bu	i-Bu	i-Bu
D	i-Pr	i-Pr	i-Bu
E	i-Pr	s-Bu	i-Bu
F	s-Bu	s-Bu	i-Bu

Depsipeptide ionophores

Enniatins are a complex of depsipeptides produced by several *Fusarium* species. Typically, the complex contains 4 major components: A, A₁, B and B₁ together with minor amounts of enniatins C, D, E and F. The enniatins act as ionophores. Recently their effects on acyl-CoA cholesterol transferase, as nematocides and the selectivity of their antitumor action have received more focus.

Macrotetrolides

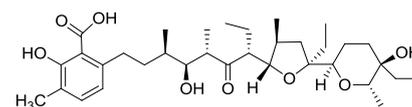


Dinactin

Macrocyclic ionophores

Monactin, dinactin, trinactin, tetranactin and nonactin are members of the macrotetrolide complex produced by a range of *Streptomyces* sp. Dinactin is a monovalent cation ionophore with high selectivity for ammonium and potassium. Dinactin inhibits T-cell proliferation induced by IL-2 and cytokine production at nanomolar levels for IL-2, IL-4, IL-5 and interferon- γ . Dinactin and its analogues have not previously been available for intensive investigation.

Polyether antibiotics



Lasalocid

Lipid membrane transporters

Polyether antibiotics show a broad spectrum of biological activity, including antibacterial, antifungal, antiparasitic and antiviral activity, as well as tumor cell cytotoxicity. The polyether antibiotics are lipid soluble and able to transport metal cations across cell membranes.

MEMBRANE ACTIVES FROM BIOAUSTRALIS

Avermectins

Avermectin B1a, B1b
Doramectin
Enamectin B1a, B1b
Eprinomectin B1a, B1b
Enamectin B1b
Ivermectin B1a, Ba1
Eprinomectin B1b
Ivermectin aglycone
Ivermectin monosaccharide
Selamectin

Milbemycins

Milbemycin A3
Milbemycin A4
Milbemycin A3 oxime
Milbemycin A4 oxime
Milbemycin oxime
Milbemycin D

Polyether antibiotics

Calcimycin
Lasalocid
Maduramicin
Monensin
Narasin
Nigericin
Salinomycin

Cyclic depsipeptides

Valinomycin

Cyclic peptides

Actagardin
Cinnamycin
Daptomycin
Polymyxin E complex

Indanomycins

Deethylindanomycin
Indanomycin

Macrolides

Desertomycin
Monazomycin

Echinocandins

Anidulafungin
Caspofungin
Echinocandin B
Micafungin
Pneumocandin B0

Linear peptides

Leucinostatin A
Alamethacin F50

Depsipeptides

Beauvericin
Enniatin A
Enniatin A1
Enniatin B
Enniatin B1
Enniatin complex

Indoles

Paxilline
Penitrem A
Verruculogen

Polyene antibiotics

Amphotericin B
Nystatin A1
Pimaricin

Macrotetrolides

Dinactin
Monaction
Nonactin
Tetractin
Trinactin

AND MORE!