Anabaenopeptin B

Inhibitor of protein phosphatase.

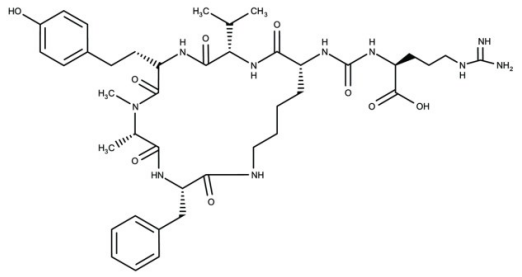
Anabaenopeptins are a highly diverse group of bioactive peptides produced by several genera of cyanobacteria such as *Anabaena, Planktothrix, Microcystis and Nodularia.* These peptides are commonly detected in cyanobacterial blooms along with the well known microcystins. Unique cyclic peptides where lysine is conserved in position 2 and cyclisation is achieved by linkage of the lysine to the C-terminal amino acid. In addition the side chain of a single amino acid is attached via a ureido bond. Bioactive peptides originally isolated from *Anabaena flos-aquae* NRC 525-17 where they were shown to be non-toxic in mice but had dose dependant relaxations in rat aortic preparations with endothelium precontracted with 0.1μM norpinephrine. Anabaenopeptins inhibit protein phosphatase.

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Ordering Information Order Online »

ALX-350-184-C100	100μg

Manuals, SDS & CofA View Online »


HO
H3C
CH3
O
H
N
O
N
H
H
N
O
H
N
NH
NH2
N
H
O
OH
O
H3C
N
O
H3C
HN
O
NH

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Pale powder or an oil (film), depending on the lot.
CAS	161897-74-1
Couple Target	Serine/threonine-protein phosphatase
Couple Type	Inhibitor
Formula	$C_{41}H_{60}N_{10}O_9$
MW	837.0
Purity	≥95% (HPLC)
RTECS	GU2294250
Solubility	Soluble in methanol.
Source	Isolated from *Microcystis aeruginosa*.

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com

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