

Marine Drugs



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Anthopleurins (AP-A)



- These are group of peptides obtained from coelenterates.
- It has possitive inotropic effect without an effect on sodium-pottassium ATPase pump, heart rate and bood pressure in various animals.
- Cardiotonic effect in conscious dog which is 35 times more potent than digoxin with very less toxicity.

Sequence:

GVSCLCSDG-PSVRGNTLSG-TLWLYPSGCP SGWHNCKAHG-PTIGWCCKQ
(C₂₂₀H₃₂₆N₆₄O₆₇S₆)

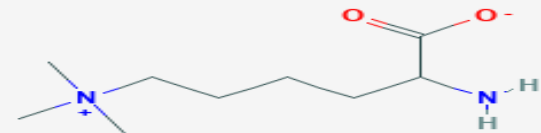
Anthopleura xanthogramica- Type A (AP-A) and Type B (AP-B)

Anthopleura elegantissima- Type C (AP-C)

D(-)- Octopamine and Laminine



- **D- Octopamine:** It is obtained from *Octopus macropus*, *O. Vulgaris* and *E. Moschata*.
- It produces adrenergic and cardiovascular response.
- **Laminine:** It is a basic amino acid compound possesses hypotensive effects obtained from marine algae, *Laminaria angustata*.



- CCSCC[C@H](NC(=O)C[C@H](N)C(=O)NCC(=O)O)C(=O)N[C@@H](Cc1ccccc1)C(=O)N[C@@H](C)C(=O)N[C@@H](Cc2ccccc2)C(=O)O