

# Isolation of a heterocyclic secondary metabolite from *Acanthopagrusberda*

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## ABSTRACT

**Introduction:** Marine natural products afford a generous source of pharmacologically bioactive compounds with prodigious chemical diversity and complexity. The importance of natural products in drug discovery has been comprehensively renowned, together with their role to the growth of current remedies. The natural product chemical variety is more closely allied with drugs than synthetic libraries, thus making them supreme candidates for drug discovery plans. *Acanthopagrusberda* belongs to *Sparidae*. The *Acanthopagrusberda*, river bream or picnic seabream, is worldwide considered as one of the noticeable sparid fish in *berda* is an estuary dependent seabream with a very wide distributional range throughout the tropical Indo-West Pacific region.[1-3]

**Objectives:** To isolate a heterocyclic constituent from *Acanthopagrusberda*.

**Methodology:**

### Extraction and isolation

Flesh & liver of *Acanthopagrusberda* AB (3.5 kg) minced with anhydrous sodium sulphide and then was extracted with methanol and evaporated under rota-vapour to furnish methanolic extract ABM (1 kg). The extract was subjected to column chromatography to give six fractions. Fraction 3, ABM-3 (chloroform and methanol) was subjected to again column chromatography to afford three major fractions. Fraction 3 confirmed a pure compound. This compound confirmed with different spectral studies.

**Result:** In this study we isolated a heterocyclic compound which may be active against different activities. Marine is a rich source of bioactive and potential agents.

**Conclusion:** Isolation of a heterocyclic compound from marine reservoir which will test against different assays.

**Keywords:** Amphiphilic, molecule, Capsaicinoids, Electrochemistry, Modified, surface, Sensor, Voltammetry

## REFERENCES

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