# Article information:

Antioxidant peptides from edible aquatic animals: Preparation method, mechanism of action, and structure-activity relationships - ScienceDirect
<https://www.sciencedirect.com/science/article/abs/pii/S0308814622026632?via%3Dihub>

# Article summary:

1. Review of enzymatic hydrolysis strategies and structure-activity relationships of antioxidant peptides from edible aquatic animals.

2. Discussion of the similarity and difference in structure and antioxidant activity between vertebrate-derived peptides and invertebrate-derived peptides.

3. Review of the stability of antioxidant peptides, noting their poor ability to cross the small intestinal epithelium in prototype form.

# Article rating:

Appears well balanced: The article presents the information in a reliable and balanced way, without biases and prejudices. The claims made in the article are well supported and, where applicable, all sides of the argument are given opportunity to present their point of view. The article appears trustworthy and reliable.

# Article analysis:

The article is generally reliable and trustworthy, as it provides a comprehensive overview of the research progress on the enzymatic hydrolysis strategy and structure–activity relationship of antioxidant peptides from edible aquatic animals over the last decade. The article is well-structured, with clear sections that discuss different aspects such as preparation methods, mechanisms of action, structure-activity relationships, stability, and intestinal absorption. The authors provide detailed information on each topic, including tools used for purification and identification processes, comparison between vertebrate-derived peptides and invertebrate-derived peptides in terms of structure and activity, as well as a review on the stability of antioxidant peptides.

The article does not appear to have any biases or one-sided reporting; instead it presents both sides equally by providing an overview of both vertebrate-derived peptides and invertebrate-derived peptides in terms of structure and activity. Furthermore, there are no unsupported claims or missing points of consideration; all claims are supported by evidence provided in the article. Additionally, there is no promotional content or partiality present in the article; instead it provides an objective overview on its topic without any bias towards either side. Finally, possible risks are noted throughout the article; for example, it mentions that most peptides cannot resist gastrointestinal digestion which could be a potential risk when considering food applications for these compounds.

# Topics for further research:

* Antioxidant peptide stability
* Intestinal absorption of peptides
* Preparation methods for peptides
* Structure-activity relationships of peptides
* Enzymatic hydrolysis of peptides
* Food applications of peptides

# Report location:

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