# Article information:

Antioxidant Activity and Anticancer Effect of Bioactive Peptides from Rainbow Trout (Oncorhynchus mykiss) Skin Hydrolysate | SpringerLink  
<https://link.springer.com/article/10.1007/s10989-019-09869-5>

# Article summary:

1. Rainbow trout skin (Oncorhynchusmykiss) was hydrolyzed using Alcalase and Flavourzyme enzymes, and bioactive peptides were separated by membrane ultrafiltration.

2. The antioxidant properties of the hydrolyzed protein were evaluated, showing that Flavourzyme had significantly higher DPPH radical inhibitory power and ferric reducing antioxidant power than Alcalase (p < 0.05).

3. Hydrolyzed skin protein with molecular weight less than 3 kDa had the highest inhibitory concentration (IC50) on HCT-116 cancer cells, proving rainbow trout skin protein hydrolysate has antioxidant properties and could be used as an antioxidant in food.

# Article rating:

May be slightly imbalanced: The article presents the information in a generally reliable way, but there are minor points of consideration that could be explored further or claims that are not fully backed by appropriate evidence. Some perspectives may also be omitted, and you are encouraged to use the research topics section to explore the topic further.

# Article analysis:

The article “Antioxidant Activity and Anticancer Effect of Bioactive Peptides from Rainbow Trout (Oncorhynchusmykiss) Skin Hydrolysate” is a reliable source of information about the potential health benefits of rainbow trout skin hydrolysates. The authors provide evidence for their claims through references to previous studies, which adds credibility to their findings. Additionally, they provide detailed descriptions of the methods used in their experiments, which allows readers to assess the validity of their results. However, there are some areas where the article could be improved upon. For example, while the authors discuss the potential anticancer effects of rainbow trout skin hydrolysates, they do not explore any possible risks associated with consuming these products or any other potential side effects that may arise from consuming them. Furthermore, while they discuss the potential benefits of consuming these products, they do not present any counterarguments or alternative points of view on this topic. Finally, while they cite several sources throughout their paper, it is unclear whether these sources are unbiased or if they have any promotional content that could influence readers’ opinions on this topic.

# Topics for further research:

* Potential risks of consuming rainbow trout skin hydrolysates
* Side effects of consuming rainbow trout skin hydrolysates
* Alternative points of view on rainbow trout skin hydrolysates
* Unbiased sources on rainbow trout skin hydrolysates
* Promotional content on rainbow trout skin hydrolysates
* Health benefits of rainbow trout skin hydrolysates

# Report location:

<https://www.fullpicture.app/item/4d351b62f9a7f8b7f3bf8b8bf75ad850>