

Accepted Manuscript

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PII: S0024-3205(18)30099-7
DOI: doi:[10.1016/j.lfs.2018.03.001](https://doi.org/10.1016/j.lfs.2018.03.001)
Reference: LFS 15577
To appear in: *Life Sciences*
Received date: 11 November 2017
Revised date: 26 February 2018
Accepted date: 1 March 2018

Please cite this article as: Fouad Affane, Sabrine Louala, Nour el Imane Harrat, Fatima Bensalah, Hadjera Chekkal, Amine Allaoui, Myriem Lamri-Senhadji , Hypolipidemic, antioxidant and antiatherogenic property of sardine by-products proteins in high-fat diet induced obese rats. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Lfs(2017), doi:[10.1016/j.lfs.2018.03.001](https://doi.org/10.1016/j.lfs.2018.03.001)

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Hypolipidemic, antioxidant and antiatherogenic property of sardine by-products proteins in high-fat diet induced obese rats

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ABSTRACT

Aims: Fish by-products valorization on account of their richness in bioactive compounds may represent a better alternative to marine products with a view to economic profitability and sustainable development. In this study, we compared the effect of sardine by-product proteins (SBy-P), with those of the fillets (SF-P) or casein (Cas), on growth parameters, serum leptin level, lipids disorders, lipid peroxidation and reverse cholesterol transport, in diet-induced obese rats. *Main methods:* Obesity was induced by feeding rats a high-fat diet (20% sheep fat), during 12 weeks. At body weight (BW) of 400 ± 20 g, eighteen obese rats were divided into three homogenous groups and continue to consume the high-fat diet for 4 weeks containing either, 20% SBy-P, SF-P or Cas. *Key findings:* The results showed that SBy-P, compared to SF-P and Cas, efficiently reduced food intake (FI), BW gain and serum leptin level, and improved blood lipids levels and reverse cholesterol transport by reducing total cholesterol (TC), triacylglycerols (TG) and low-density lipoprotein cholesterol (LDL-HDL₁-C) serum levels, increasing the level of high-density lipoprotein cholesterol (HDL₂-C and

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