



International Journal of PharmTech Research

CODEN (USA): IJPRIF, ISSN: 0974-4304, ISSN(Online): 2455-9563 Vol.9, No.6, pp 417-422, 2016

The role of milk protein-derived bioactive peptides in humans

Ramezan Ali Mahian¹, Esmaeil Ataye Salehi²*

^{1,2}Department of Food Science and Technology, Quchan Branch, Islamic Azad University, Quchan, Iran

Abstract: The role of milk extends beyond simply providing nutrition to the suckled young. Milk has a comprehensive role in programming and regulating growth and development of the suckled young, and provides a number of potential autocrine factors so that the mammary gland functions appropriately during the lactation cycle. This central role of milk is best studied in animal models such as marsupials that have evolved a different lactation strategy to eutherians and allow researchers to more easily identify regulatory mechanisms that are not as readily apparent in eutherian species. Many studies have demonstrated that milk protein consumption has benefits in terms of promoting human health. This review assesses the intervention studies which have evaluated potential health enhancing effects in humans following the ingestion of milk proteins. The impact of milk protein ingestion has been studied to assess their satiating, hypotensive, antimicrobial, anti-inflammatory, anticancer, antioxidant and insulinotropic properties as well as their impact on morphological modifications (e.g., muscle and fat mass) in humans.

Key words: Milk proteins, Necrotizing enterocolitis, Nutrition, Bioactive peptides.
