

عنوان مقاله:

Comparing the effect of curcumin and its degradation products on oxidative stability of the peroxidase enzyme

محل انتشار:

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خلاصه مقاله:

Curcumin (diferuloylmethane), a polyphenol, is the main active component of Curcuma longa. It has a large variety of biological activities. Many therapeutic properties of curcumin have also been considered to be associated with its antioxidant properties, but the mechanism of its antioxidant activity is not fully understood [1]. Curcumin rapidly degrades to diverse chemical species in alkaline pH. These products could be an important factor in the biological effect of curcumin [2]. The aim of present study is to compare the effect of curcumin and its degradation product on oxidative stability of the peroxidase enzyme. Peroxidases break down H_2O_2 into molecular oxygen and water and protect organisms from oxidative stress. In this study, structure of the enzyme was investigated by circular dichroism technique.

کلمات کلیدی:

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