

The protective effect of oleuropein from alzheimer disease as a natural drug

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Abstract

Background and Purpose: Oleuropein is found in olive trees and in the leaves of olive trees. It may have an important role in the treatment and possible prevention of Alzheimer's disease. Applied Approach: The aim of this study is to determine the chemical properties of oleuropein and determine the reactivity of this substance as well as Oleuropein's inhibition effect on AChE.BChE. Key Results: DFT (Density functional theory), HF (Hartree-Fock) and docking methods were used to measure the chemical properties of oleuropein. The structures of the compounds were fully optimized by using the above-mentioned methods and the results were evaluated. Oleuropein is an unstable molecule and is prone to degradation possibly due to it containing a phenolic structure. Conclusion and Implications: The results of the present study indicate that it may play an important role in the treatment of Alzheimer's disease.

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