



In silico and pharmacokinetic studies of glucomoringin from *Moringa oleifera* root for Alzheimer's disease like pathology

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Aim: The aim of this research is to investigate the potential of glucomoringin, derived from *Moringa oleifera*, as a therapeutic agent for Alzheimer's disease through *in silico* analysis. **Materials & methods:** This study employs *in silico* or computational methodologies, including pkCSM, Swiss ADME, OSIRIS[®] property explorer, PASS online web resource and MOLINSPIRATION[®] software, to predict the pharmacokinetic characteristics and biological activity of glucomoringin. **Results & conclusion:** Molecular docking indicates strong binding to Aβ and the pharmacokinetic profile shows cytochrome P450 enzyme inhibition, prompting further research for dosing strategies. Toxicological predictions affirm safety, while bioactivity assessments demonstrate versatility in modulating essential pathways, glucomoringin's potential for Alzheimer's treatment, emphasizing the need for additional empirical research.

Plain language summary: Alzheimer's disease is a severe brain condition that affects millions of people worldwide. It impairs memory and thinking and there is no cure yet. Researchers are looking into alternative treatments, like using the moringa plant. Some compounds in moringa, such as glucomoringin, seem promising for Alzheimer's treatment. However, it's essential to be cautious and consult with a doctor before trying these treatments. The study used computer simulations to see how well glucomoringin could work for Alzheimer's. It found that glucomoringin might be good at reducing inflammation in the brain. It also looked at how the body processes glucomoringin and found that it seems safe and could be used as a treatment. However, these are just computer predictions and more research is needed to confirm if glucomoringin is effective for Alzheimer's. Alzheimer's is a complex disease and there's no one-size-fits-all treatment. So, it's important to work with doctors to find the best approach for each patient. In the future, Alzheimer's research will focus on early detection, personalized treatments and using technology to help patients. Public awareness and support for Alzheimer's patients and their caregivers are crucial and global collaboration is vital for progress in finding a cure.

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Keywords: Alzheimer • biological activity • glucomoringin • herbal medicine • *in silico* • molecular docking • *Moringa oleifera* • pharmacokinetic • phytotherapy • toxicity

Alzheimer's disease, a devastating neurological condition, profoundly impacts millions worldwide. As the leading cause of dementia in older adults, it gradually impairs cognitive functions and memory. Coined by Dr. Alois Alzheimer in 1906, the disease is marked by abnormal protein deposits; mainly amyloid plaques and tau tangles, in the brain [1]. This results in the gradual deterioration of brain cells, leading to a continuous decline in cognitive function and eventual loss of independence. Alzheimer's disease poses a considerable public health challenge, inflicting emotional distress on affected individuals and imposing burdens on healthcare systems and society at large. This introduction seeks to offer an overview of this complex and debilitating disease, exploring its causes, symptoms, diagnosis, treatment and ongoing research endeavors to enhance understanding and address the challenges it presents [2]. The escalating prevalence of Alzheimer's disease is a global concern, exacerbated by an aging population. As of our last update in September 2021, about 50 million individuals worldwide were living

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