Activity of Moringa oleifera against Herpes through deactivation of Herpes virus fusion regulator complex gH-Gl (3M1C)

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Abstract: An in-silico study was performed to determine the activity of Moringa oleifera against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes virus fusion regulator complex gH-Gl (3M1C) enzyme. It was found that Rosmarinic acid helped to prevent Herpes.

Introduction: Moringa oleifera is known for its medicinal activities. Various parts of this plant such as the leaves, roots, seed, bark, fruit, flowers and immature pods act as cardiac and circulatory stimulants, possess antitumor, antipyretic, antiepileptic, antiinflammatory, herpes, antiulcer, antispasmodic, diuretic, antihypertensive, cholesterol lowering.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Brassicales
Family	Moringaceae
Genus	Moringa
Species	oleifera

Major phytochemicals present in the plant are:

- a. Isorhamnetin
- b. Rosmarinic acid
- c. Lutein
- d. Lycopene

One of the major enzymes required for the survival of the organism causing Herpes is Herpes virus fusion regulator complex gH-Gl (3M1C) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.

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