Activity of Phyllanthus urinaria 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 Phyllanthus urinaria 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 Naringin helped to prevent Herpes.

Introduction: Phyllanthus urinaria is known for its medicinal activities. It is used in folk medicine as a cure to treat jaundice, herpes, diabetes, malaria, and liver diseases.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Malpighiales
Family	Phyllanthaceae
Genus	Phyllanthus
Species	urinaria

Major phytochemicals present in the plant are:

- a. Tangeretin
- b. Ursolic acid
- c. Limonene
- d. Naringin

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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