Activity of Atlantia sp. 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 Atlantia sp. 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 Ajoene helped to prevent Herpes.

Introduction: Atlantia sp. is known for its medicinal activities. The flowers, fruit and roots are used to cure herpes, jaundice, fever, headache and asthma.

The plant is classified as follows:

Kingdom	Plantae
Division	Magnoliophyta
Class	Magnoliopsida
Order	Sapindales
Family	Rutaceae
Genus	Atalantia
Species	racemosa

Major phytochemicals present in the plant are:

- a. Allicin
- b. Ajoene
- c. Gallic acid
- d. Ellagic acid

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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