Activity of Scinaia hatei against Herpes through deactivation of Herpes Simplex virus Type II Protease (1AT3)

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Abstract: An in-silico study was performed to determine the activity of Scinaia hatei against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes Simplex virus Type II Protease (1AT3) enzyme. It was found that Tangeretin helped to prevent Herpes.

Introduction: Scinaia hatei is known for its medicinal activities. It helps to treat herpes, dengue, myalgia, pancreatitis, cardiac arrhythmia, and hepatitis.

The plant is classified as follows:

Kingdom	Plantae
Division	Rhodophyta
Class	Florideophyceae
Order	Nemalionales
Family	Chaetangiaceae
Genus	Scinaia
Species	hatei

Major phytochemicals present in the plant are:

a. Sulforaphane
b. Alliin
c. Tangeretin
d. Tannic acid

One of the major enzymes required for the survival of the organism causing Herpes is Herpes Simplex virus Type II Protease (1AT3) 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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