

Activity of *Hypericum mysorensense* against Herpes through deactivation of Herpes virus fusion regulator complex gH-GI (3M1C)

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Abstract: An in-silico study was performed to determine the activity of *Hypericum mysorensense* against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes virus fusion regulator complex gH-GI (3M1C) enzyme. It was found that Ursolic acid and Astaxanthin helped to prevent Herpes.

Introduction: *Hypericum mysorensense* is known for its medicinal activities. *Hypericum mysorensense* has been used to treat wounds and herpes as part of the Ayurvedic system of traditional medicine.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Equisetopsida
Order	Malpighiales
Family	Hypericaceae
Genus	<i>Hypericum</i>
Species	<i>mysorensense</i>

Major phytochemicals present in the plant are:

- Ursolic acid
- Astaxanthin
- Sitosterol
- Astaxanthin

One of the major enzymes required for the survival of the organism causing Herpes is Herpes virus fusion regulator complex gH-GI (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.