Activity of Taracetium vulgare against Herpes through deactivation of Herpes Simplex virus type 1 DNA polymerase (2GV9)

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Abstract: An in-silico study was performed to determine the activity of Taracetium vulgare against Herpes. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Herpes Simplex virus type 1 DNA polymerase (2GV9) enzyme. It was found that Alliin helped to prevent Herpes.

Introduction: Taracetium vulgare is known for its medicinal activities. In larger doses the plant can procure an abortion, though these doses can be poisonous. Externally, tansy is used as a poultice on swellings, herpes and some eruptive skin diseases.

The plant is classified as follows:

Kingdom	Plantae	
Division	Tracheophyta	
Class	Magnoliopsida	
Order	Asterales	
Family	Asteraceae	
Genus	Taracetum	
Species	vulgare	

Major phytochemicals present in the plant are:

- a. Pelletierine
- b. Alliin
- c. Theobromine
- d. Quercetin

One of the major enzymes required for the survival of the organism causing Herpes is Herpes Simplex virus type 1 DNA polymerase (2GV9) 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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