Activity of Solanum torvum 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 Solanum torvum 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 Linamarin helped to prevent Herpes.

Introduction: Solanum torvum is known for its medicinal activities. Fruit and leaf decoction is used to treat cough, herpes and to treat liver and spleen enlargement.

The plant is classified as follows:

Kingdom	Plantae	
Division	Tracheophyta	
Class	Magnoliopsida	
Order	Solanales	
Family	Solanaceae	
Genus	Solanum	
Species	torvum	

Major phytochemicals present in the plant are:

- a. Campesterol
- b. Linamarin
- c. Glutathione
- d. Malvidin

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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