

## Activity of *Potentilla anserina* against Hepatitis C through deactivation of Hepatitis C Virus protease

(3M5O)

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**Abstract:** An in-silico study was performed to determine the activity of *Potentilla anserina* against Hepatitis C. Molecular docking using Biovia Discovery Studio was performed to identify the phytochemical responsible to deactivate Hepatitis C Virus protease

(3M5O) enzyme. It was found that Lupeol helped to prevent Hepatitis C.

**Introduction:** *Potentilla anserina* is known for its medicinal activities. The whole plant is antispasmodic, mildly astringent, diuretic, foot care, haemostatic, odontalgic and tonic.

The plant is classified as follows:

Kingdom	Plantae
Division	Tracheophyta
Class	Magnoliopsida
Order	Rosales
Family	Rosaceae
Genus	<i>Potentilla</i>
Species	<i>anserina</i>

Major phytochemicals present in the plant are:

- Lupeol
- Peonidin
- Limonene
- Malvidin

One of the major enzymes required for the survival of the organism causing Hepatitis C is Hepatitis C Virus protease

(3M5O) enzyme. The objective of this work is to find the phytochemical that can deactivate the enzyme, thereby preventing the physiological activity of the organism.