

Baicalin

Baicalin is extracted and purified from the Chinese medicinal plant *Scutellaria baicalensis* Georgi (Chinese name: Huang Qin). Baicalin is found in several species in the genus *Scutellaria*, including *Scutellaria baicalensis* and *Scutellaria lateriflora*. It is also present in the bark isolate of the *Oroxylum indicum* tree. The flavonoid baicalein was found as an active component in the extract of *Oroxylum indicum* tree

Baicalin has broad therapeutic effects, including anti-oxidative stress, anti-inflammation, anti-apoptosis[2-3]. Scientists have been shown baicalin's antiviral activities for SARS coronavirus (EC50 12.5 ug/ml at 48 hours). Baicalin has anti-SARS effects.

In addition, a study showed that baicalin could inhibit ACE[4]. Baicalin may have strong binding to the ACE2 enzyme. Baicalin exhibits potent antiviral activity against members of the order Nidovirales of the family Coronaviridae that infects humans

Synonyms: *Scutellaria macrantha*[6]

Ayurvedic:

- *Scutellaria baicalensis*, with the common name Baikal skullcap or Chinese skullcap or
- *Oroxylum indicum* : Shyonak , Sonapatha , Indian trumpet tree

The roots are astringent, bitter Tonic, stomachic, anodyne, anti-inflammatory and expectorant in action. They stimulate digestion, cure fever, cough and other respiratory disorders and is useful in diarrhea, dysentery, abdominal pain, thirst, vomiting, anorexia, rheumatism, worms, leprosy and other skin diseases, oedema and urogenital disorders. In Ayurveda, the roots are considered Tikta/Bitter, kashaya/Astringent (Rasa/taste), Laghu/Light, Ruksha/Dry (Guna/characteristic), Sheet/ Cool (Virya/Potency) and Katu/Pungent (Vipaka/Post Digestive Effect). In action, the roots are Dipana, Kapha-pitta-shamak and Grahi in nature. The roots are given to treat respiratory illness, low appetite, gout, abdominal diseases, ear diseases and swelling.[7]

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