

Biological potential and antioxidant activity of irisolidone in the medicine through scientific data analysis

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Background: Plant derived phytochemical have been scientifically reported to have therapeutic benefit. Flavonoidal class phytochemical has been showing significant importance in the medicine and available in a wide range of plants. Irisolidone is a flavonoidal class phytochemical found to be present in the rhizomes of *Iris germanica*.

Methods: Here in the present investigation numerous scientific data were collected from different literature databases and analyzed. Pharmacological aspects of irisolidone have been investigated in the present work through literature data analysis of different scientific research works. Antioxidant potential of irisolidone in the medicine has been investigated in the present work through literature data analysis of different scientific research works.

Results: Antioxidant potential of irisolidone in the medicine has been investigated in the present work through literature data analysis of different scientific research works and found that irisolidone scavenge DPPH radical and intracellular reactive oxygen species. Some other scientific studies also signified the biological importance of irisolidone in the medicine for their antioxidant potential.

References: Kang KA;Zhang R;Piao MJ;Ko DO;Wang ZH;Kim BJ;et al. Protective effect of irisolidone, a metabolite of kakkalide, against hydrogen peroxide induced cell damage via antioxidant effect. *Bioorg Med Chem*, 2008,16,1133–41.
Ibrahim SRM;Mohamed GA;Zayed MF;Ross SA. 8-Hydroxyirilone 5-methyl ether and 8-hydroxyirilone, new antioxidant and α -amylase inhibitors isoflavonoids from *Iris germanica* rhizomes. *Bioorg Chem*, 2017,70,192–8.

Conclusion: Literature data analysis revealed the biological potential and antioxidant activity of irisolidone in the medicine.

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