BIOLOGICAL ACTIVITY:

Luteolin is a falconoid compound, which exhibits anticancer properties.

IC50 value:

Target: A natural for anticancer.

In vitro: Luteolin exerted an anticancer effect against NCI-H460 cells through Sirt1-mediated apoptosis and the inhibition of cell migration [1]. The treatment of luteolin upregulated the expression levels of transforming growth factor β1 (TGF–β1), p21WAF1/CIP1, p27KIP1, Smad4, and Fas in HCC cells. Luteolin induced apoptotic cell death in Hep3B cells while caused G1 arrest in HepG2 cells. And it induces apoptosis from G1 arrest via three signaling pathways of TGF–β1, p53, and Fas/Fas–ligand in HCC cells [2].

In vivo: The study of the effect of Luteolin on the improvement of cancerous cachexia in model mice showed that luteolin can improve the symptoms of cancer cachexia model mice. The mechanism may be related to inhibition of proteasome and calcium activated protease activity and lower the levels of cytokines [3].

References:


Caution: Product has not been fully validated for medical applications. For research use only.

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