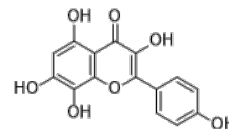


Product Name : Herbacetin
Cat. No. : PC-28349
CAS No. : 527-95-7
Molecular Formula : C₁₅H₁₀O₇
Molecular Weight : 302.24
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Herbacetin is a naturally occurring flavonoid and potent, specific, allosteric ornithine decarboxylase (ODC) inhibitor, exhibits potent anticancer activity in colon cancer cell lines expressing high levels of ODC. Herbacetin effectively suppresses HCT116 xenograft tumor growth and also reduced the number and size of polyps in a mouse model of APC-driven colon cancer (ApcMin/+).

Herbacetin also shows anti-fibrotic agent and exerts its anti-fibrotic effect on pulmonary and renal fibrosis by targeting TGFBR2 for degradation.

Herbacetin inhibits the polyamine biosynthetic pathway and targets the methyltransferase (MTase) enzyme of both the dengue virus (DENV) and chikungunya virus (CHIKV), GTP binding site in the DENV-3 NS5 MTase with K_i of 0.43 μM.

Herbacetin mitigates oxidative stress and ferroptosis to protect against doxorubicin-induced cardiotoxicity.

Herbacetin is capable of restoring immune balance in VKH disease by suppressing pathogenic T cell responses.

References

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 Yang H, et al. Biochem Pharmacol. 2025 Oct;240:117117.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com