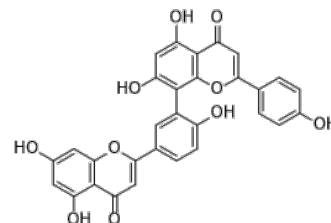


Product Name : Amentoflavone
Cat. No. : PC-25873
CAS No. : 1617-53-4
Molecular Formula : C₃₀H₁₈O₁₀
Molecular Weight : 538.46
Target : VEGFR
Solubility : 10 mM in DMSO



Biological Activity

Amentoflavone is a naturally occurring biflavonoid with anti-inflammatory and anti-tumor properties, an antiangiogenic bioactive molecule that binds VEGFs preventing the interaction and phosphorylation of VEGF receptor 1 and 2 (VEGFR-1, VEGFR-2).

Amentoflavone significantly inhibited GLI-1-mediated CRC cell proliferation, induced G1 phase arrest, and downregulated Cyclin D1/CDK4 expression, by targeting the GLI-1/IL-6/STAT3 signaling axis.

Amentoflavone inhibited endothelial cell migration and capillary-like tube formation induced by VEGF-A or placental growth factor 1 (PlGF-1) at low uM concentration.

Amentoflavone inhibited VEGF-A-induced chorioallantoic membrane neovascularization as well as tumor growth and associated neovascularization, as assessed in orthotopic melanoma and xenograft colon carcinoma models.

References

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

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