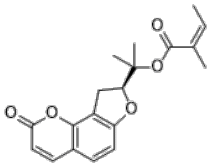
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Columbianadin
Cat. No.	:	PC-28715
CAS No.	:	5058-13-9
Molecular Formula	:	$C_{19}H_{20}O_5$
Molecular Weight	:	328.36
Target	:	PI3K
Solubility	:	10 mM in DMSO



Biological Activity

Columbianadin is a coumarin from heracleum brunonis with anti-inflammatory, analgesic, thrombogenesis-inhibiting and anti-tumor effects. inhibits the **PI3K/Akt** signaling pathway in GBM cells.
Columbianadin inhibits depolarization induced Ca2+ uptake in rat pituitary GH3 cells.
CBN inhibits the growth and proliferation of GBM cells in a dose-dependent manner.
Columbianadin arrested the cell cycle in G0/G1 phase and induced the apoptosis of GBM cells.
Columbianadin inhibited GBM growth in an orthotopic mouse model of GBM through inhibiting PI3K/Akt signaling pathway.
Columbianadin inhibited both mechanical and cold hypersensitivity induced by oxaliplatin.

References

Törnquist K, et al. ***Planta Med***. 1990 Feb;56(1):127-9.

Zhang W, et al. ***Biochem Pharmacol***. 2024 May;223:116112.

Su X, et al. ***Front Pharmacol***. 2020 Jan 9;10:1522.

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

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