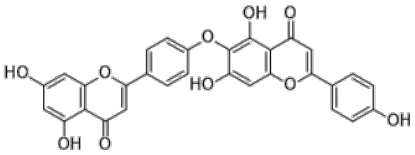
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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	Hinokiflavone
Cat. No.	:	PC-28719
CAS No.	:	19202-36-9
Molecular Formula	:	$C_{30}H_{18}O_{10}$
Molecular Weight	:	538.46
Target	:	Spliceosome
Solubility	:	10 mM in DMSO



Biological Activity

Hinokiflavone is a plant biflavonoid with anti-inflammatory, anti-tumor and antiviral activities, is an inhibitor of **pre-mRNA splicing** in vitro and modulator of alternative splicing in cells, blocking **spliceosome** assembly, preventing formation of the B complex.
Hinokiflavone increases protein SUMOylation levels, both in in vitro splicing reactions and in cells.
Hinokiflavone also inhibited a purified, E. coli expressed SUMO protease, SENP1, in vitro.
Hinokiflavone induces apoptosis and inhibits migration of breast cancer cells via EMT signalling pathway. Hinokiflavone induces apoptosis in melanoma cells through the ROS-mitochondrial apoptotic pathway and impairs cell migration and invasion.

References

Wang K, et al. ***Eur J Med Chem***. 2026 Dec 5;319:119278.

Lin YM, et al. ***Planta Med***. 1989 Apr;55(2):166-8.

Yang S, et al. ***Biomed Pharmacother***. 2018 Jul;103:101-110.

Pawellek A, et al. ***Elife***. 2017 Sep 8;6:e27402.

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

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