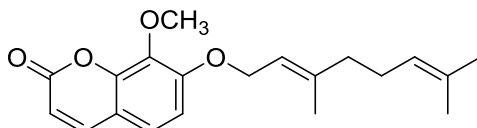


Collinin

Code No.: **BIA-C1768**

Pack sizes: **1 mg, 5 mg**



Synonyms : NSC 31870, Schinifolin

Specifications

CAS #	: 34465-83-3
Molecular Formula	: C ₂₀ H ₂₄ O ₄
Molecular Weight	: 328.4
Source	: <i>Flindersia maculosa</i>
Appearance	: Cream solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Collinin is a terpenylated coumarin isolated from *Flindersia maculosa* and other species by Ritchie and colleagues at Sydney University, Australia in 1954. Collinin possesses broad spectrum activity as an inhibitor of inflammation, collagenase and the differentiation of human preosteoclastic cells. Collinin induces apoptosis in human Jurkat T cells and is active against resistant strains of *Mycobacterium tuberculosis*.

References

1. The chemical constituents of Australian *Flindersia* Species. I. Collinin, 7-geranoxy-8-methoxycoumarin. Anet F.A.L. et al., Aust. J. Sci. Res. 1949, 2, 127.
2. The chemical constituents of Australian *Flindersia* species. V. The constituents of *Flindersia maculosa* Lindl. Brown R.F.C. et al., Aust. J. Chem 1954, 7, 181.
3. Chemistry and pharmacology of collinin, active principle of *Zanthoxylum* spp. Epifano F. et al., Mini Rev. Med. Chem. 2008, 8, 1203.
4. In vitro activity of collinin isolated from the leaves of *Zanthoxylum schinifolium* against multidrug- and extensively drug-resistant *Mycobacterium tuberculosis*. Kim S. et al., Phytomed. 2018, 46, 104.
5. Collinin reduces *Porphyromonas gingivalis* growth and collagenase activity and inhibits the lipopolysaccharide-induced macrophage inflammatory response and osteoclast differentiation and function. Santos J. et al., J. Periodontol. 2013, 84, 704.
6. Induction of apoptosis by collinin from *Zanthoxylum schinifolium* is mediated via mitochondrial pathway in human Jurkat T cells. Kim J-S. et al., Process Biochem. 2013, 48, 945.