

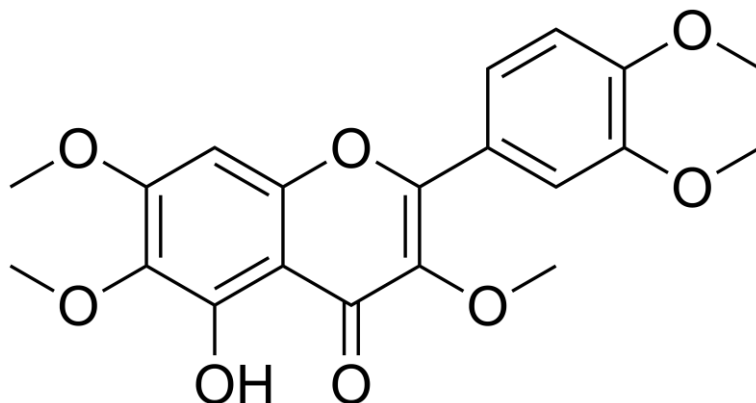
PRODUCT INFORMATION



Artemitin

Catalog No.: FLV-108-5

CAS Registry No.: 479-90-3
Molecular Formula: $C_{20}H_{20}O_8$
Synonyms: Artemisetin
Artemetin
Erianthin
Molecular Weight: 388.4 g/mol
Purity: $\geq 90\%$ (HPLC)
Form: Yellow Powder
Source: *Vitex trifolia* L.



Description

Artemitin is derived from various medicinal plants, including *Artemisia absinthium*, *Artemisia argyi*, *Achillea millefolium*, and *Vitex trifolia*, and is reported to have anti-malarial, anti-oxidant, anti-apoptotic, anti-microbial, anti-tumoral, antiatherosclerotic, anti-inflammatory, hypotensive and hepatoprotective effects¹. It is a polymethoxylated lipophilic flavone presenting only a free hydroxyl group involved in a hydrogen bond with the ketone moiety and is found to induce a dose-dependent cytotoxicity, lipid profile modulation, and mitochondrial potential increase in cancer HeLa cells². It also significantly improved airway inflammation, oxidative stress, and mitochondrial dysfunction in asthma by modulating the ABCG2/RAB7A axis and PANoptosis³.

References

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2. Rosa A, Isola R, Pollastro F, Nieddu M. 2022. Effect of the natural polymethoxylated flavone artemetin on lipid oxidation and its impact on cancer cell viability and lipids. *Fitoterapia.* 2022;156:105102
3. Ding N, Bai Q, Wang Z, Piao Y, Li L, Piao H, Yan G, Song Y. 2025. Artemetin targets the ABCG2/RAB7A axis to inhibit mitochondrial dysfunction in asthma, *Phytomedicine*(140) <https://doi.org/10.1016/j.phymed.2025.156600>.

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