

Artemetin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Artemetin

Catalog No.: CFN98731

Cas No.: 479-90-3

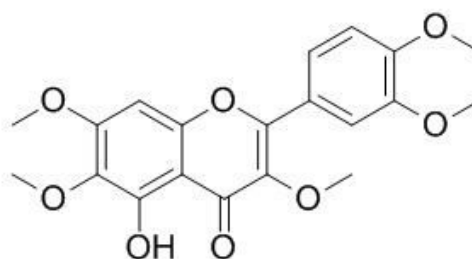
Purity: > 98%

M.F: C₂₀H₂₀O₈

M.W: 388.4

Physical Description: Yellow powder

Synonyms: 2-(3,4-Dimethoxyphenyl)-5-hydroxy-3,6,7-trimethoxy-1-benzopyran-4-one.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The herbs of *Achillea millefolium* L.

[Biological Activity or Inhibitors]

Artemetin is one of the main components of *Achillea millefolium* L. and *Artemisia absinthium*, it improves cell viability in PAE that were subjected to peroxidation by counteracting GSH depletion and apoptosis and through the modulation of mitochondrial function, it protects endothelial function by acting as antioxidant and antiapoptotic agent and through the activation of ERK1/2 and Akt. [1]

Artemetin inhibits the viability of HeLa cells in a dose dependent manner, with IC₅₀ of 79.9 μmol·L⁻¹, it also induces the apoptosis of HeLa cells in a dose dependent manner. [2]

Artemetin has anti-inflammatory activity and sub-acute toxicity. [3]

Artemetin has antiedematogenic activity. [4]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method] [5]

Mobile phase: Acetonitrile : 1% Acetic acid H₂O=51:49;

Flow rate: 0.8 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Grossini E, Marotta P, Farruggio S, *et al. Phytotherapy Research Ptr*, 2015, 29(9).

[2] Yang X H, Tian L, Cao J G, *et al. Central South Pharmacy*, 2010, 08(8):568-71.

[3] Sertié, J. A. A, Basile, A. C, Panizza, S, *et al. Planta Med.*, 1990, 56(1):36-40.

[4] Bayeux M C, Fernandes A T, Foglio M A, *et al. Braz. J. Med. Biol. Res.*, 2002, 35(10):1229-32.

[5] Shi S, Zhou H, Zhang Y, *et al. J. Chromatogr. Sci.*, 2009, 47(5):349-53.

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