

Xanthoxylin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Xanthoxylin

Catalog No.: CFN97465

Cas No.: 90-24-4

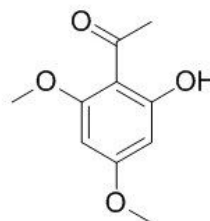
Purity: >98%

M.F: C₁₀H₁₂O₄

M.W: 196.20

Physical Description: Powder

Synonyms: 2-Hydroxy-4,6-dimethoxyacetophenone.



[Intended Use]

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

[Source]

The roots of *Zanthoxylum simulans*.

[Biological Activity or Inhibitors]

Xanthoxylin induces melanogenesis mainly via cAMP-mediated PKA activation, other

signaling pathways may also play a role in xanthoxylin-induced melanogenesis.^[1]

Xanthoxylin has antispasmodic activity.^[2]

Xanthoxylin and its derivatives have fungistatic effect against a panel of yeasts, filamentous fungi and dermatophytes. ^[3]

Xanthoxylin has inhibitory effect on blood platelet aggregation in rabbits.^[4]

Xanthoxylin derivatives has antinociceptive and antioedematogenic activities.^[5]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[6]

Mobile phase:Methanol -H₂O=60:40 ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 290 nm.

[Storage]

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

[References]

[1] Moleephan W, Wittayalertpanya S, Ruangrunsi N, *et al. Asian Biomed.*, 2012, 6(3):413-22.

[2] Filho V C, Miguel O G, Nunes R J, *et al. J.Pharm. Sci.-UK*, 1995, 84(4):473-5.

[3] Pinheiro T R, Yunes R A, López S N, *et al. Arzneimittel-Forsch.*, 1999, 49(12):1039-43.

[4] Jin Y H, Cheng Y Y. *Traditional Chinese Drug Research & Clinical Pharmacology*,2000, 11(6):352-3

[5] Cechinel-Filho V, Vaz Z R, Zunino L, *et al. Eur. J. Med. Chem.*, 1996, 31(10):833-9.

[6] Wen Y X, Huang CL, Zhu Y C, *et al. Lishizhen Medicine & Materia Medica Research*,

2007, 18(9):2137-8.

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