

Quassin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Quassin

Catalog No.: CFN97246

Cas No.: 76-78-8

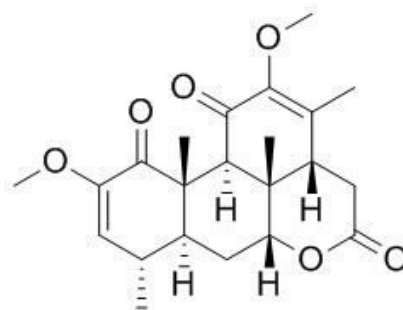
Purity: > 95%

M.F: C₂₂H₂₈O₆

M.W: 388.5

Physical Description: Powder

Synonyms: 2,12-Dimethoxypicrasa-2,12-diene-1,11,16-trione.



[Intended Use]

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

[Source]

The barks of *Quassia amara* L.

[Biological Activity or Inhibitors]

Quassin exhibits *P. falciparum* inhibitory activity (IC₅₀=0.06 micro g/ml, 0.15 micro M).^[1]

Quassin can significantly increase red blood cell count, pack cell volume and haemoglobin concentration, suggests that it possesses anti-anaemic property.^[2]

Quassin has female anti-fertility properties, possibly acting via inhibition of estrogen secretion.^[3]

Quassin can induce a potent host-protective immune response by enhancing NO generation and iNOS2 expression both at a protein and mRNA level and by up-regulating pro-inflammatory cytokines such as TNF-alpha and IL-12 in *L. donovani*-infected macrophages with concurrent inhibition of anti-inflammatory responses; suggests that quassin could as a potent immunomodulatory tool for controlling the establishment of leishmanial parasite within the host macrophages.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: 0.1% Formic acid in water- 0.1% Formic acid in methanol, gradient elution;

Flow rate: 0.3 ml/min;

Column temperature: 40°C;

The wave length of determination: 255 nm.

[Storage]

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

[References]

[1] Mishra K, Chakraborty D, Pal A, *et al. Exp. Parasitol.*, 2010 Apr; 124(4):421-7.

[2] Raji Y. *Niger. J. Physiol. Sci.*, 2010 Nov 28; 25(2):103-6.

[3] Raji Y, Akinola A, Oyeyipo IP, *et al. Niger. J. Physiol. Sci.*, 2010 Nov 24; 25(2):95-102.

[4] Bhattacharjee S, Gupta G, Bhattacharya P, *et al. J. Antimicrob. Chemother.*, 2009 Feb;

63(2):317-24.

[5] Nishizaki Y, Tada A, Ishizuki K, *et al.* *Journal of the Food Hygienic Society of Japan*, 2015,56(5):185-93.

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