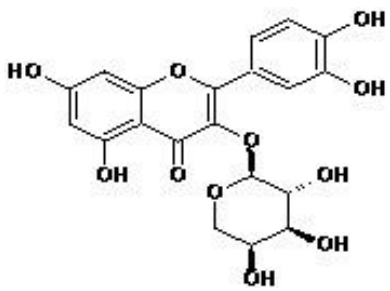
Natural Products

ChemFaces

Guaijaverin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]



Name: Guaijaverin

Catalog No.: CFN98211

Cas No.: 22255-13-6

Purity: > 98%

M.F: $C_{20}H_{18}O_{11}$

M.W: 434.4

Physical Description: Yellow powder

Synonyms:2-(3,4-Dihydroxyphenyl)-5,7-dihydroxy-3-[[(2S,3R,4S,5S)-3,4,5-trihydroxy-2-oxanyl]oxy]-1-benzopyran-4-one;Quercetin 3-O-α-L-arabinopyranoside.

[Intended Use]

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

[Source]

The bark of *Psidium guajava Linn.*

[Biological Activity or Inhibitors]

Guaijaverin demonstrates high potential antiplaque agent by inhibiting the growth of the *Strep. Mutans*.[1]

Guaijaverin and avicularin are the major bioactive components in guava leaves with hypoglycemic activity and inhibitory capacity against free fatty acid release.[2]

Guaijaverin (IC(50)=0.18 microM) shows an inhibitory effect on rat lens aldose reductase.[3]

Guaijaverin is an antioxidant.[4]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method][4]

Mobile phase: Acetonitrile -H2O=18:82 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 257 nm.

[Storage]

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

[References]

[1] Prabu G R, Gnanamani A, Sadulla S. *J. Appl. Microbiol., 2006, 101(2):487-95.*

[2] Ouyang W, Zhu X W, Su L, *et al. Food Science, 2016, 37(7):168-74.*

[3] Matsuda H, Morikawa T, Toguchida I, *et al. Chem. Pharm. Bull. (Tokyo). 2002, 50(6): 788-95.*

[4] Simirgiotis M J, Adachi S, To S, *et al. Food Chem., 2008, 107(2):813-9.*

[Contact]

Address:
S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com
Tel: +86-27-84237783
Fax: +86-27-84254680
Web: www.chemfaces.com
Tech Support: service@chemfaces.com