

3-Hydroxybakuchiol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 3-Hydroxybakuchiol

Catalog No.: CFN92703

Cas No.: 178765-54-3

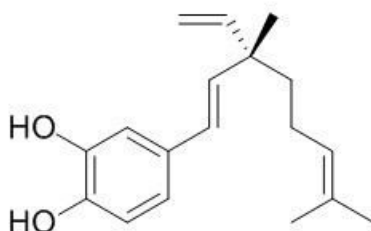
Purity: > 95%

M.F: C₁₈H₂₄O₂

M.W: 272.38

Physical Description: Oil

Synonyms: 4-[(1E,3S)-3-Ethenyl-3,7-dimethyl-1,6-octadien-1-yl]-1,2-benzenediol.



[Intended Use]

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

[Source]

The herbs of *Psoralea corylifolia* Linn.

[Biological Activity or Inhibitors]

3-Hydroxybakuchiol(IC₅₀)=49 microM) shows inhibitory activities against the antigen-

induced degranulation in RBL-2H3 cells.^[1]

3-Hydroxybakuchiol has antioxidant activity.^[2]

Bakuchiol and 3-hydroxy-bakuchiol demonstrate potent activity against clinical yeast isolates with the MIC₍₈₀₎ ranging from 4 to >16 and 0.125 to 16 ug/mL, respectively, they have some degree of antifungal activity; suggests that they have potential application in the therapy of serious infection and skin diseases caused by clinical yeast. ^[3]

3-Hydroxybakuchiol can induce tumor cell death by the inhibition of mitochondrial electron transport.^[4]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Matsuda H, Sugimoto S, Morikawa T, *et al. Chem. Pharm. Bull.*, 2007, 55(1):106-10.

[2] Alejandro MADRID, Luis ESPINOZA, Marco MELLADO, *et al. Boletín Latinoamericano Y Del Caribe De Plantas Medicinales Y Aromaticas*, 2013, 12(4):338-45.

[3] Madrid A, Espinoza L, González C, *et al. J. Ethnopharmacol.*, 2012, 144(3):809-11.

[4] Jaña F, Faini F, Lapier M, *et al. Toxicol. Appl. Pharm.*, 2013, 272(2):356-64.

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