

4-Hydroxyphenylacetic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 4-Hydroxyphenylacetic acid

Catalog No.: CFN97923

Cas No.: 156-38-7

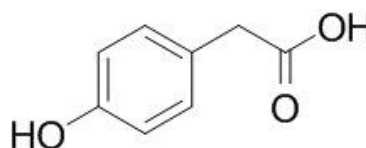
Purity: >=98%

M.F: C₈H₈O₃

M.W: 152.15

Physical Description: Powder

Synonyms: 2-(4-Hydroxyphenyl)acetic acid.



[Intended Use]

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

[Source]

The herbs of *Bulbophyllum odoratissimum*.

[Biological Activity or Inhibitors]

4-Hydroxyphenylacetic acid can attenuate inflammation and edema through suppressing

hypertonic and hypoxic induction of HIF-1 α in seawater aspiration-induced lung injury in rats.^[1]

4-Hydroxyphenylacetic acid shows nematicidal activities against root-lesion nematode, and the pine wood nematode.^[2]

4-Hydroxyphenylacetic acid can inhibit monophenolase ($IC_{50}=0.79mM$) and activate diphenolase of mushroom tyrosinase with its increasing concentrations, it can not only inhibit the oxy form but also activate the met form of mushroom tyrosinase. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-Methanol=75:25 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 275 nm.

[Storage]

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

[References]

[1] Liu Z, Xi R, Zhang Z, *et al. Int. J. Mol. Sci.*, 2014, 15(7):12861-84.

[2] Ohtani K, Fujioka S, Kawano T, *et al. Zeitschrift für Naturforschung C*, 2011, 66(1-2): 31-4.

[3] Xie J G, Li S B, Xue Y, *et al. International Conference on Bioinformatics and Biomedical Engineering. IEEE*, 2009,6 :1-3.

[4] Wang Z, Zhu R, Liao H, *et al. Chinese Journal of Pharmaceutical Analysis*, 2005, 25:1102-5.

[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