

4-Hydroxybenzaldehyde Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 4-Hydroxybenzaldehyde

Catalog No.: CFN99013

Cas No.: 123-08-0

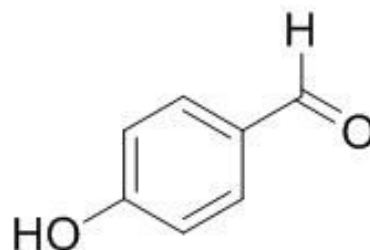
Purity: > 98%

M.F: C₇H₆O₂

M.W: 122.1

Physical Description: Powder

Synonyms: p-Hydroxybenzaldehyde.



[Intended Use]

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

[Source]

The herb of *Gastrodia elata* Blume.

[Biological Activity or Inhibitors]

4-Hydroxybenzaldehyde, an analogue of p-hydroxybenzyl alcohol, showed an inhibitory effect on the GABA transaminase, and its inhibitory activity was higher than that of valproic acid, a known anticonvulsant ; the antioxidation and positive modulation of GABAergic neuromodulation of 4-hydroxybenzaldehyde partially contribute to an antiepileptic and anticonvulsive activity of *G. elata* B1.^[1]

A series of novel 4-hydroxybenzaldehyde derivatives may be served as lead compounds for further designing new potential tyrosinase inhibitors.^[2]

4-Hydroxybenzaldehyde exhibits anti-angiogenic, anti-inflammatory and anti-nociceptive activities possibly via down-regulating iNOS and/or COX-2, which may be partly responsible for pharmacological efficacies of various natural products.^[3]

[Solvent]

Chloroform, Dichloromethane, Diethyl ether, DMSO, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Methanol- H₂O -Isopropyl alcohol=35:55:10 ;

Flow rate: 0.4 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 270 nm.

[Storage]

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

[References]

[1] Ha J H, Lee D U, Lee J T, *et al. J. Ethnopharmacol.*, 2000, 73(1-2):329-33.

[2] Yi W, Cao R, Peng W, *et al. Eur. J. Med. Chem.*, 2010, 41(23):639-46.

[3] Lim E J, Kang H J, Jung H J, *et al. Biomol. Ther.*, 2008, 16(3):231-6.

[4] Li H X, Ding M Y, Lv K, *et al. J. Liq. Chromatogr. R. T.*, 2001, 24(4):579-88.

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