

2-(3,4-Dihydroxyphenyl)ethanol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 2-(3,4-Dihydroxyphenyl)ethanol

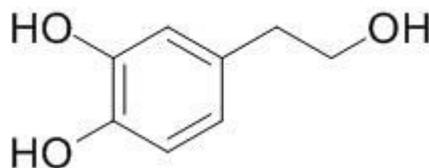
Catalog No.: CFN99076

Cas No.: 10597-60-1

Purity: >=98%

M.F: C₈H₁₀O₃

M.W: 154.2



Physical Description: Oil

Synonyms: 4-(2-Hydroxyethyl)-1,2-Benzenediol; 3,4-Dihydroxyphenethyl Alcohol.

[Intended Use]

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

[Source]

The herbs of *Canarium album*.

[Biological Activity or Inhibitors]

2-(3,4-Dihydroxyphenyl)ethanol is a potent specific inhibitor of lipoxygenase activities, it inhibits platelet 12-LO activity (IC₅₀, 4.2 microM) and PMNL 5-LO activity (IC₅₀, 13 microM) but not cyclooxygenase activity in cell-free conditions; it also inhibits 12-LO activity in intact platelets (IC₅₀, 50 microM) and reduces leukotriene B4 production in intact PMNL stimulated by A23187 (IC₅₀, 26 microM).^[1]

Hydroxytyrosol (2-(3,4dihydroxyphenyl)ethanol has antioxidant properties.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-1%Phosphoric acid in water=6:94;

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:258 nm.

[Storage]

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

[References]

[1] Kohyama N, Nagata T, Fujimoto S, *et al. Biosci. Biotechnol. Biochem.*,1997, 61(2):347-50.

[2] Merra E, Calzaretti G, Bobba A, *et al. Drug and Chemical Toxicology*, 2014, 37(4):420-6.

[3] Mi B L, Li K Q, Zhang Z Q, *et al. Chinese Journal of Pharmaceutical Analysis*, 2009, 29(3):504-7.

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