

Tyrosol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Tyrosol

Catalog No.: CFN98128

Cas No.: 71-36-3

Purity: >=98%

M.F: C₄H₁₀O

M.W: 74.12

Physical Description: Oil

Synonyms: n-Butyl alcohol; 2-(4-Hydroxyphenyl)ethanol.



[Intended Use]

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

[Source]

The heart wood of *Pinus yunnanensis*.

[Biological Activity or Inhibitors]

Tyrosol is a quorum-sensing molecule in *Candida albicans*, it has important implications on the dynamics of growth and morphogenesis in *Candida*.^[1]

Tyrosol, the major olive oil biophenol, may counteract the reactive oxygen metabolite-mediated cellular damage and related diseases, by improving in vivo antioxidant defenses.^[2]

Tyrosol and salidroside show high antioxidant capacity, they can protect H9c2 cells from ischemia/reperfusion-induced apoptosis.^[3]

Tyrosol exhibits protective effects against the sensory motor dysfunction, suggests that tyrosol is an appropriate candidate to be used in stroke therapy.^[4]

Tyrosol and hydroxytyrosol have protective effects against A β -induced toxicity, they could as neuroprotective agent against A β and their potential involvement in the beneficial effect of the Mediterranean diet for the prevention of Alzheimer's disease.^[5]

Tyrosol, phenylacetic acid, and indole-3-acetic acid have antifungal activity against the dry rot causative pathogen *Gibberella pulicaris*, and to suppress dry rot infection of wounded potatoes; disease suppression is optimal when all three compounds are applied in combination.^[6]

[Solvent]

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

[HPLC Method]^[6]

Mobile phase: Acetonitrile-H₂O=8:92;

Flow rate: 1.0 ml/min;

Column temperature: 30°C;

The wave length of determination: 220 nm.

[Storage]

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

[References]

- [1] Chen H, Fujita M, Feng Q, *et al. Proc. Natl. Acad. Sci. U.S.A.*, 2004 Apr 6;101(14):5048-52.
- [2] Giovannini C, Straface E, Modesti D, *et al. J. Nutr.*, 1999 Jul;129(7):1269-77.
- [3] Sun L, Isaak C K, Zhou Y, *et al. Life Sci.*, 2012 Sep 4;91(5-6):151-8.
- [4] Jaishree V, Badami S, Kumar M R, *et al. Phytomed. Int. J. Phytother. Phytopharmacol.*, 2009, 16(2-3):227-32.
- [5] St-Laurent-Thibault C, Arseneault M, Longpré F, *et al. Curr. Alzheimer Res.*, 2011 Aug; 8(5):543-51.
- [6] Zhang J, Chen X, Gao G, *et al. Chinese Journal of Pharmaceutical Analysis*, 2006, 26(9):1238-40.

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