[ Product Information ]

Name: Oxyresveratrol
Catalog No.: CFN98368
Cas No.: 29700-22-9
Purity: > 98%
M.F: C_{14}H_{12}O_{4}
M.W: 244.24

Physical Description: Powder

Synonyms: 4-[2-(3,5-Dihydroxyphenyl)ethenyl]benzene-1,3-diol;
4-[(E)-2-(3,5-Dihydroxyphenyl)ethenyl]benzene-1,3-diol.

[ Intended Use ]

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

[ Source ]

The herbs of Dracaena angustifolia.
[ Biological Activity or Inhibitors]

Oxyresveratrol (OXY) shows potent inhibitory effect with an IC(50) value of 1.2 microm on mushroom tyrosinase activity, which is 32-fold stronger inhibition than kojic acid, a depigmenting agent used as the cosmetic material with skin-whitening effect and the medical agent for hyperpigmentation disorders; the depigmenting effect of oxyresveratrol works through reversible inhibition of tyrosinase activity rather than suppression of the expression and synthesis of the enzyme.[1]

Oxyresveratrol is a more effective scavenger for 2,2-diphenyl-1-picryl-hydrazyl (DPPH, 100 microM) used as a general free radical model, compared to resveratrol (RES) or trans-4-hydroxystilbene (IC(50)=28.9, 38.5, and 39.6 microM, respectively), OXY displayed a generally lower cytotoxicity than RES; the radical and ROS scavenging properties, as well as the lower cytotoxicity towards microglia and the known good water solubility suggest OXY as a potential protectant against reactive oxygen and nitrogen species (ROS/RNS).[2]

Oxyresveratrol has neuroprotective effect, it can inhibit the apoptotic cell death in transient cerebral ischemia . [3]

Oxyresveratrol, a dietary phenolic compound, as a potential nutritional candidate for protection against neurodegeneration in Parkinson disease.[4]

Oxyresveratrol exhibits the inhibitory activity at the early and late phase of viral replication and inhibited the viral replication with pretreatment in one-step growth assay of HSV-1 and HSV-2, it inhibits late protein synthesis at 30microg/ml; the combination of oxyresveratrol and acyclovir (ACV) produced synergistic anti-HSV-1 effect, topical application of 30% oxyresveratrol ointment five times daily significantly delayed the development of skin lesions and protected mice from death.[5]

Oxyresveratrol as an antibrowning agent for cloudy apple juices and fresh-cut apples.[6]

[ Solvent ]

Pyridine, Methanol, Ethanol, etc.
[**HPLC Method**][7]

Mobile phase: Acetonitrile- 0.5% Aqueous acetic acid ,gradient elution ;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 320 nm.

[**Storage**]

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

[**References**]


[**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