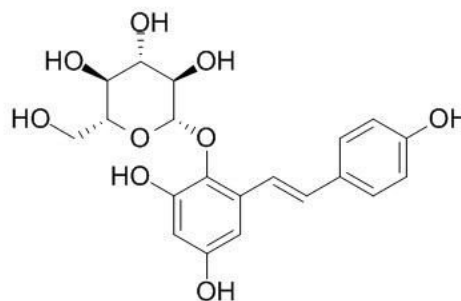


2,3,5,4'-Tetrahydroxydiphenylethylene-2-O-glucoside Datasheet4th Edition (Revised in July, 2016)**[Product Information]****Name:** 2,3,5,4'-Tetrahydroxyl diphenylethylene-2-O-glucoside**Catalog No.:** CFN99995**Cas No.:** 82373-94-2**Purity:** > 98%**M.F:** C₂₀H₂₂O₉**M.W:** 406.39**Physical Description:** White powder**Synonyms:** b-D-Glucopyranoside, 2,4-dihydroxy-6-[2-(4-hydroxyphenyl)ethenyl]phenyl, (E)-; 2,3,4',5-Tetrahydroxystilbene-2-O-D-glucoside; Stilbene glycoside.**[Intended Use]**

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Care and daily chemicals;
7. Intermediates & Fine Chemicals;
8. Ingredient in supplements, beverages;
9. Others.

[Source]

The roots of *Polygonum multiflorum*.

[Biological Activity or Inhibitors]

2,3,5,4'-Tetrahydroxydiphenylethylene-2-O-glucoside(TSG) blocks the proliferation of PSMCs induced by PDGF-BB through arresting the cell cycle in G0 / G1 phase, indicates that TSG suppress PDGF-BB-induced PSMCs proliferation is associated with an inhibition of AKT / GSK3 β signaling pathways.^[1]

Stilbeneglycoside has protective effects of preconditioning in an ischemia/reperfusion model of HUVECs.^[2]

Stilbene glycoside has active effect on proliferation and differentiation of rat's osteoblasts, can promote the mature of osteoblasts.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, Hot water, etc.

[HPLC Method]^[4]

Mobile phase: Methanol-0.01M Acetic acid H₂O=20:80;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 320 nm.

[Storage]

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

[References]

[1] Guan W J, Xu C. *J. Med. Res.*, 2015, 44 (06): 122-6.

[2]Li-ping, Zhang-ping, LIAO, *et al. Acta Pharmacol. Sin.*, 2010, 31(4):405-12.

[3] Jiwei W U. *Hebei MedJ*, 2014(05):654-6.

[4] Gang D , An S F, Liu CY. *West China J. Pharm. Sci.*, 2003, 17(4):297-9.

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