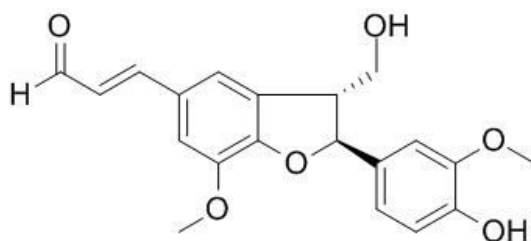


Balanophonin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Balanophonin**Catalog No.:** CFN99295**Cas No.:** 118916-57-7**Purity:** > 95%**M.F:** C₂₀H₂₀O₆**M.W:** 356.4**Physical Description:** Powder**Synonyms:** (2E)-3-[(2S,3R)-2-(4-Hydroxy-3-methoxyphenyl)-3-(hydroxymethyl)-7-methoxy-2,3-dihydro-1-benzofuran-5-yl]acrylaldehyde; trans-4'-Brom-3-stilbazol.

[Intended Use]

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

[Source]

The herbs of *Balanophora japonica* Makino.

[Biological Activity or Inhibitors]

Balanophonin exhibits cytotoxicity against SGC-7901 and SMMC-7721 cell lines.^[1]

(-)-Balanophonin shows the significant inhibitory activity on advanced glycation end products (AGEs) formation with values of 27.81 μ M.^[2]

Balanophonin shows potent α -glucosidase inhibitory activity.^[3]

(\pm)-Balanophonin shows significant antibacterial activity against cariogenic oral streptococci, *Streptococcus mutans* and *S. sobrinus*.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 204 nm.

[Storage]

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

[References]

[1] Wang Q H, Peng K, Tan L H, *et al. Molecules*, 2010 Jun 1;15(6):4011-6.

[2] Lee G Y, Jang D S, Lee Y M, *et al. J. Korean Soc. Appl. Biol. Chem.*, 2008, 51(4):316-20.

[3] Mai T T N. *Natural Product Sciences*, 2014, 18(1):47-51.

[4] Kim H J, Kang M A, Kim S H, *et al. Natural Product Sciences*, 2011, 17(4):267-72.

[5] Zeng X J, Wang G C, Wu X, *et al. Chinese Traditional & Herbal Drugs*, 2013, 44(13): 1721-5.

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