

Kobophenol A Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Kobophenol A

Catalog No.: CFN92530

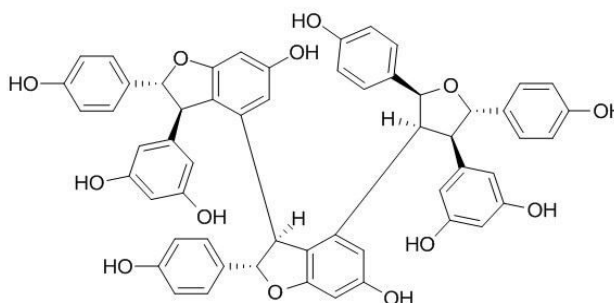
Cas No.: 124027-58-3

Purity: > 95%

M.F: C₅₆H₄₄O₁₃

M.W: 925.0

Physical Description: Powder



Synonyms: (2S,2'R,3S,3'R)-3'-(3,5-dihydroxyphenyl)-4-[(2S,3S,4R,5S)-4-(3,5-dihydroxyphenyl)tetrahydro-2,5-bis(4-hydroxyphenyl)-3-furanyl]-2,2',3,3'-tetrahydro-2,2'-bis(4-hydroxyphenyl)-[3,4'-bibenzofuran]-6,6'-diol; Niacin Potassium Salt.

[Intended Use]

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

[Source]

The herb of *Carex humilis* Leyss.

[Biological Activity or Inhibitors]

Kobophenol A has protective potential against the toxic effects of sodium nitroprusside (SNP), it can inhibit SNP-induced cardiac H9c2 cell death through suppressing activation of JNK and preserving mitochondrial anti-apoptotic Bcl-2 and Mcl-1.^[1]

Kobophenol A has proliferative effects and enhances alkaline phosphatase (ALP) activity in osteoblast cells and these findings provide insights into the development of a therapeutic approach of kobophenol A in the prevention of osteoporosis and other bone disorders.^[2]

Kobophenol A inhibits cetylcholinesterase (AChE) activity in a dose-dependent manner, and the IC₅₀ value is 115.8 microM.^[3]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[4]

Mobile phase: Methanol-Acetonitrile-Buffer(pH=4.50)=16.2 :12.8 :71.0;

Flow rate:1.0 ml/min;

Column temperature: 30°C;

The wave length of determination:284 nm.

[Storage]

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

[References]

[1] Lee S R, Kwak J H, Noh S J, *et al. Chem. Pharm. Bull. (Tokyo)*, 2014;62(7):713-8.

[2] Kwak J H, Lee S R, Park H J, *et al. Int. Immunopharmacol.*,2013 Nov;17(3):704-13.

[3] Sung S H, Kang S Y, Lee K Y, *et al. Biol. Pharm. Bull.*,2002 Jan;25(1):125-7.

[4] Shu N, Zhou H, Hu C. *Biol. Pharm. Bull.*,2006 Apr;29(4):608-12.

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