

Kazinol U Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kazinol U

Catalog No.: CFN97839

Cas No.: 1238116-48-7

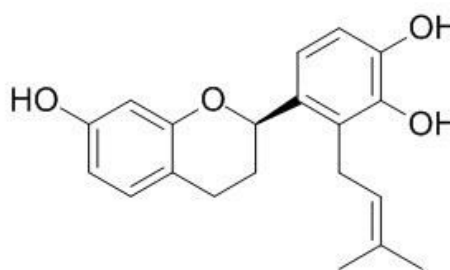
Purity: > 98%

M.F: C₂₀H₂₂O₄

M.W: 326.39

Physical Description: Powder

Synonyms: 4-[(2R)-3,4-Dihydro-7-hydroxy-2H-1-benzopyran-2-yl]-3-(3-methyl-2-buten-1-yl)-1,2-benzenediol.



[Intended Use]

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

[Source]

The barks of *Broussonetia papyrifera*.

[Biological Activity or Inhibitors]

Kazinol U is one estrogenic constituent from *Broussonetia kazinoki*, it shows estrogenic activity with ligand-activity of estrogen receptor, transcriptional activity of estrogen -responsive element-reporter genes, it also controls the cellular gene expression levels of -responsive genes; phytoestrogens from *B. kazinoki* may have beneficial effects in the treatment of menopausal symptoms.^[1]

Kazinol U can suppress NO and hydrogen peroxide production and apoptotic cell death by cytokines in RINm5F cells; the protective effects of kazinol U are further demonstrated by normal insulin secretion of cytokine-treated islets in response to glucose; these results suggest that using kazinol U to block the NF- κ B pathway in pancreatic β -cells reduces cell damage, so, kazinol U may have therapeutic value in delaying pancreatic β -cell destruction in type 1 diabetes.^[2]

[Solvent]

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

[HPLC Method]

Mobile phase: Methanol-H₂O gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Da Y L, Kim D H, Lee H J, *et al. Bioorg. Med. Chem. Lett.*, 2010, 20(12):3764-7.

[2] Bae U J, Lee d Y, Song M Y, *et al. Biol. Pharm. Bull.*, 2011, 34(7):1026-31.

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