

Ginkgolide J Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Ginkgolide J

Catalog No.: CFN99149

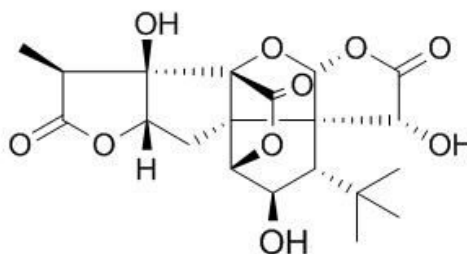
Cas No.: 107438-79-9

Purity: >=98%

M.F: C₂₀H₂₄O₁₀

M.W: 424.40

Physical Description: Cryst.



Synonyms: 7β-Hydroxyginkgolide A; (3aR,4aR,4bR,5S,7aS,9S,10R,11S)-11-tert-butyl-1,4b,10-trihydroxy-5-methyltetrahydro-4bH,9H-9,4a-(epoxymethano)cyclopenta[c]furo[2,3-b]furo[3',2':3,4]cyclopenta[1,2-d]furan-2,6,13(1H,5H)-trione.

[Intended Use]

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

[Source]

The seed of *Ginkgo biloba* L.

[Biological Activity or Inhibitors]

Ginkgolide J can prevent A beta(1-42) induced inhibition of long-term potentiation in the CA1 region of mouse hippocampal slices, it is also capable of inhibiting cell death of rodent hippocampal neurons caused by A beta(1-42), this beneficial and multi-faceted mode of action of the ginkgolide makes it a new and promising lead in designing therapies against Alzheimer's disease.^[1]

Ginkgolide J can inhibit platelet aggregation induced by ADP or PAF.^[2]

Ginkgolides (Gins A, B, C and J) have a significant role to protect the primary cortical neurons from hypoxic injury induced by potassium cyanide (KCN).^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: N-propanol-Tetrahydrofuran-H₂O=1:27:72;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 220 nm.

[Storage]

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

[References]

[1] Vitolo O, Gong B, Cao Z, *et al. Neurobiol.Aging*, 2009 Feb;30(2):257-65.

[2] Tan P, Hao Y, Liu Y, *et al. Chinese Journal of Clinicians*, 2013,7(24):11569-73.

[3] Zhu L, Xu Y J, Du F, *et al. Exp. Brain. Res.*,2007 Jun;179(4):665-71.

[4] Wu Y, Yan B, Bi Y, *et al. World Science & Technology*,2012,14(2):1498-501.

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