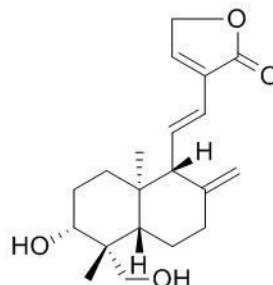


14-Deoxy-11,12-didehydroandrographolide Datasheet5th Edition (Revised in January, 2017)**[Product Information]****Name:** 14-Deoxy-11,12-didehydroandrographolide**Catalog No.:** CFN98666**Cas No.:** 42895-58-9**Purity:** > 95%**M.F:** C₂₀H₂₈O₄**M.W:** 332.4**Physical Description:** Powder**Synonyms:** 4-[2-[(1R,4aS,5R,6R,8aS)-6-hydroxy-5-(hydroxymethyl)-5,8a-dimethyl-2-methylidene-3,4,4a,6,7,8-hexahydro-1H-naphthalen-1-yl]ethyl]-2H-furan-5-one.**[Intended Use]**

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

[Source]The herbs of *Andrographis paniculata* (Burm. f.) Nees.**[Biological Activity or Inhibitors]**

14-Deoxy-11,12-didehydroandrographolide (DDA) has hypotensive action, it causes negative chronotropic action and antagonised isoproterenol-induced positive chronotropic actions in a non-competitive and dose-dependent manner, these results further supported the bradycardia-inducing and beta-adrenoceptor antagonistic properties of DDA in vivo.^[1]

14-Deoxy-11,12-didehydroandrographolide can retain the anti-inflammatory activities of andrographolide for asthma probably through the inhibition of NF- κ B, it may be considered as a safer analogue of andrographolide for the potential treatment of asthma.^[2]

14-Deoxy-11,12-didehydroandrographolide and andrographolide can effectively ameliorate astrocytic pro-inflammatory reactions and prevent PC12 cell death with different efficacies, they may be candidates for treatment of spinal-cord injury and neurodegeneration. ^[3]

14-Deoxy-11,12-didehydroandrographolide shows more potent cytotoxicity against human promonocytic leukemia (THP-1) cells than adherent cancer cell lines, it also shows antiproliferative action on both THP-1 and Jurkat cancer cell lines with low IC₅₀ values.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol-H₂O=55:45 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 205 nm.

[Storage]

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

[References]

- [1] Zhang C, Kuroyangi M, Tan B K. *Pharmacol. Res.*, 1998, 38(6):413-7.
- [2] Guan S P, Kong L R, Cheng C, *et al. J Nat Prod.*, 2011, 74(6):1484-90.
- [3] Tzeng Y M, Lee Y C, Cheng W T, *et al. Life Sci.*, 2012, 90(7-8):257-66.
- [4] Raghavan R, Cheriyaundath S, Madassery J. *J. Nat .Med.*, 2014, 68(2):387-94.
- [5] Xu T, Pan J, Zhao L. *J. Chromatogr .Sci.*,2008, 46(8):747-50.

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