

Taraxerone Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Taraxerone

Catalog No.: CFN98821

Cas No.: 514-07-8

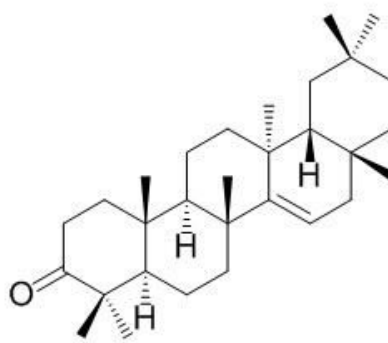
Purity: > 98%

M.F: C₃₀H₄₈O

M.W: 424.7

Physical Description: Powder

Synonyms: (4aR,6aR,6aS,8aR,12aR,14aR,14bR)-4,4,6a,6a,8a,11,11,14b-octamethyl-2,4a,5,6,8,9,10,12,12a,13,14,14a-dodecahydro-1H-picen-3-one.



[Intended Use]

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

[Source]

The herb of *Taraxacum mongolicum* Hand. Mazz.

[Biological Activity or Inhibitors]

Taraxerone prevents catalase, superoxide dismutase, and reduces glutathione concentrations from the decrease induced by ethanol administration with the concentration dependent manner.^[1]

Taraxerone induces cell shrinkage, chromatin condensation and nuclear membrane rupture which are characteristic of apoptosis; it inhibits cancer cell growth by inducing apoptosis in non-small cell lung cancer cells.^[2]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Methanol - 0.5% glacial acetic acid H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 323 nm.

[Storage]

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

[References]

[1] Sung C K, Kim S M, Oh C J, *et al. Food & Chemical Toxicology An International Journal Published for the British Industrial Biological Research Association*, 2012, 50(7):2508-14.

[2] Giang P M, Minh T V, Son P T, *et al. Nat. Prod. Res.*, 2014, 29(1):1-6.

[3] Li J H, Zhong J J, Liu Y Y, *et al. Plant Res.*, 2014, 34 (3): 423-7.

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