

Taraxerol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Taraxerol

Catalog No.: CFN99381

Cas No.: 127-22-0

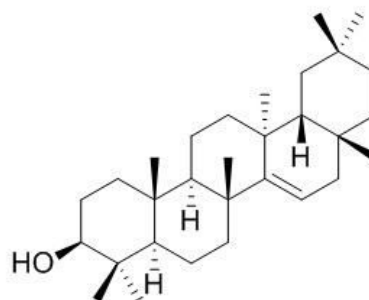
Purity: > 98%

M.F: C₃₀H₅₀O

M.W: 426.7

Physical Description: Powder

Synonyms: Alnulin; Tiliadin; Skimmiol; D-Friedoolean-14-en-3β-ol.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The herb of *Taraxacum mongolicum* Hand. Mazz..

[Biological Activity or Inhibitors]

Taraxerol, a triterpenoid compound, has potent anti-inflammatory effects, it downregulates

the expression of proinflammatory mediators in macrophages by interfering with the activation of TAK1 and Akt, thus preventing NF- κ B activation. [1]

Taraxerol can produce triterpenoid anti-cancer compound in *Agrobacterium*-transformed root cultures of butterfly pea (*Clitoria ternatea* L.).[2]

Taraxerol can be used as a lipid biomarker for mangrove input to the SE Atlantic, the proxy-environment relations for taraxerol and *Rhizophora* pollen down-core show that increased taraxerol and *Rhizophora* pollen abundances occur during transgressions and periods with a humid climate, these environmental changes modify the coastal erosion and sedimentation patterns, enhancing the extent of the mangrove ecosystem and/or the transport of mangrove organic matter offshore.[3]

Taraxerol has inhibitory effects on AGS cell growth through inducing G2/M arrest and promotion of cell apoptosis, taraxeryl acetate has less effect on cell cycle arrest and apoptosis of AGS cells than taraxerol.[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl ether, Ethyl Acetate, DMSO.

[HPLC Method]^[5]

HPTLC method:

Expand agents: Hexane- Ethyl acetate = 80: 20;

Chromogenic agents: anisaldehyde reagent;

The wave length of determination: 420 nm.

[Storage]

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

[References]

[1] Yao X, Li G, Bai Q, *et al. Int. Immunopharmacol.*, 2013, 15(2):316–24.

[2] Swain S S, Rout K K, Chand P K. *Appl. Biochem. Biotech.*, 2012, 168(3):487-503.

[3] Versteegh G J M, Schefuß E, Dupont L, *et al. Geochim. Cosmochim. Ac.*, 2004, 68(3):
411-22.

[4] Tan B, Shi H L, Ji G, *et al. Journal of Chinese Integrative Medicine*, 2011, 32(6):
1278-84.

[5] Kumar V, Mukherjee K, Kumar S, *et al. Phytochem. Anal.*, 2008, 19(19):244-50.

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