

Communic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Communic acid

Catalog No.: CFN98332

Cas No.: 2761-77-5

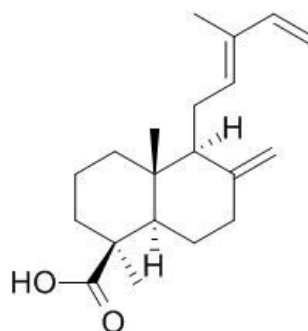
Purity: > 98%

M.F: C₂₀H₃₀O₂

M.W: 302.5

Physical Description: Powder

Synonyms: (8α)-1,4α-Dimethyl-5β-(3-methyl-2,4-pentadienyl)-6-methylenedecalin-1β-carboxylic acid; 8(17),12,14-Labdatriene-19-oic acid.



[Intended Use]

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

[Source]

The branches of *Platycladus orientalis*.

[Biological Activity or Inhibitors]

Brown pine leaf extract (BPLE) and trans-communic acid (TCA) elicit reductions in UVB-induced MMP-1 mRNA expression and activator protein-1 (AP-1) transactivation by reducing DNA binding activity of phospho-c-Jun, c-fos and Fra-1, they also inhibit UVB-induced Akt phosphorylation, but not mitogen activated protein kinase (MAPK), known regulators of AP-1 transactivation, inhibit phosphoinositide 3-kinase (PI3K), the upstream kinase of Akt, in vitro; suggests that BPLE and its active component TCA exhibit protective effects against UVB-induced skin aging, these findings underline the potential for BPLE and TCA to be utilized as anti-wrinkling agents and cosmetic ingredients, as they suppress UVB-induced MMP-1 expression.^[1]

Communic acid has antibacterial activity, including against mycobacterial.^[2,3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Huh W B, Kim J E, Kang Y G, *et al. Plos One*, 2015; 10(6): e0128365.

[2] Samoylenko V, Dunbar D C, Md. Abdul Gafur , *et al. Phytother. Res.*, 2008, 22(12): 1570-6.

[3] Carpenter C D, O'Neill T E, Ellsworth K, *et al. Planta Med.*, 2012, 78(11):1193-1193.

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