



12-Hydroxyjasmonic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 12-Hydroxyjasmonic acid

Catalog No.: CFN99460

Cas No.: 140631-27-2

Purity: > 95%

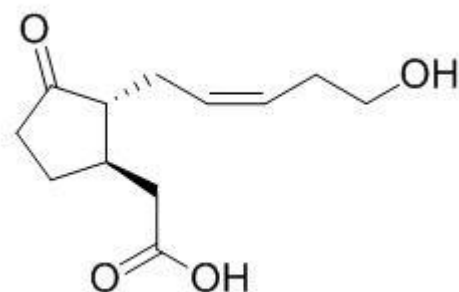
M.F: C₁₂H₁₈O₄

M.W: 226.3

Physical Description: Powder

Synonyms: {(1R,2R)-2-[(2Z)-5-hydroxypent-2-en-1-yl]-3-oxocyclopentyl}acetic acid;

Tuberonic acid.



[Intended Use]

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

[Source]

The herbs of *Stephania japonica*.

[Biological Activity or Inhibitors]

12-Hydroxyjasmonic acid glucoside is a COI1-JAZ-independent activator of leaf-closing movement in *samanea saman*.^[1]

[Solvent]

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

[HPLC Method]^[2]

HPLC-MS:

Mobile phase: 0.2% Acetic acid in water- Methanol=70:30 ;

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

Nebulization temperature: 170 °C;

Desolvator temperature: 400 °C;

The drift voltage: -40V;

The needle voltage: 2700V.

[Storage]

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

[References]

[1] Nakamura Y, Mithöfer A, Kombrink E, *et al. Plant Physiol.*,2011,155(3):1226-36.

[2] Matsuura H, Ohkubo Y, Yoshihara T. *Biosci. Biotechnol. Biochem.*,2001,65(2):378-82.

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