

3alpha-Akebonoic acid Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 3alpha-Akebonoic acid

Catalog No.: CFN99067

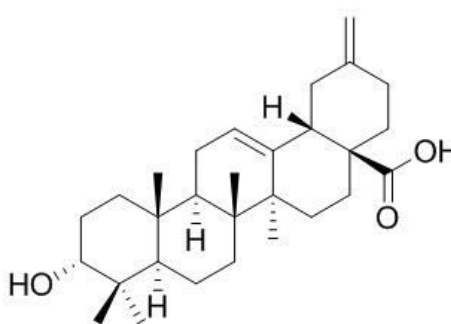
Cas No.: 104777-61-9

Purity: > 95%

M.F: C₂₉H₄₄O₃

M.W: 440.7

Physical Description: Powder



Synonyms:(4aS,6aS,6bR,8aR,10R,12aR,12bR,14bS)-10-Hydroxy-6a,6b,9,9,12a-pentamethyl-2-methylene-1,3,4,5,6,6a,6b,7,8,8a,9,10,11,12,12a,12b,13,14b-octadecahydro-4a(2H)-picenecarboxylic acid.

[Intended Use]

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

[Source]

The herbs of *Akebia trifoliata*.

[Biological Activity or Inhibitors]

3 α -Akebonoic acid shows interesting in vitro growth inhibitory activity against human tumor A549 and HeLa cell lines, it also shows significant in vitro α -glucosidase inhibitory activity.^[1]

3- α -Akebonoic acid can interfere with presenilin-1 (PS1)/ β -site APP-cleaving enzyme 1 (BACE1) interaction and reduces A β production, the chemical interference of PS1/BACE1 interaction is a promising strategy for Alzheimer's disease therapeutics.^[2]

[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] Wang J, Xu Q L, Zheng M F, *et al. Molecules*, 2014, 19(4):4301-12.

[2] Cui J, Wang X, Li X, *et al. Cell Discovery*, 2015, 1:15021.

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