

Atraric acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Atraric acid

Catalog No.: CFN98703

Cas No.: 4707-47-5

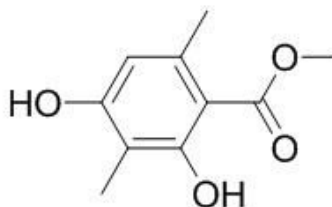
Purity: > 95%

M.F: C₁₀H₁₂O₄

M.W: 196.20

Physical Description: Powder

Synonyms: Methyl-2,4-dihydroxy-3,6-dimethylbenzoate.



[Intended Use]

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

[Source]

The fruits of *Vitis vinifera* L.

[Biological Activity or Inhibitors]

Atraric acid (AA) isolated from bark material of *Pygeum africanum* has anti-androgenic

activity, inhibiting the transactivation mediated by the ligand-activated human androgen receptor (AR); AA is able to efficiently repress the growth of both the androgen-dependent LNCaP and also the androgen-independent C4-2 Pca cells but not that of PC3 or CV1 cells lacking AR, AA also inhibits the expression of the endogenous prostate specific antigen gene in both LNCaP und C4-2 cells, suggests that AA can be used for prophylaxis or treatment of prostatic diseases.^[1]

Protein tyrosine phosphatase 1B (PTP1B) is an attractive therapeutic target for diabetes, playing a major role in negative regulation of the insulin signaling pathway, atraric acid inhibits PTP1B activity in a dose-dependent manner with IC50 values of 51.5 uM; suggest that atraric acid has potential to treat diabetes.^[2]

[Solvent]

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

[HPLC Method]^[2]

Mobile phase: 0.1% Formic acid in water- Methanol,gradient elution ;

Flow rate: 5.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Papaioannou M, Schleich S, Prade I, *et al. J. Cell. Mol. Med., 2009, 13(8B):2210-23.*

[2] Changon Seo, Joung HanYim, Hong Kum Lee, *et al. Mycology An International Journal on Fungal Biology, 2011, 2(1):18-23.*

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