

Timosaponin A3 Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Timosaponin A3

Catalog No.: CFN98151

Cas No.: 41059-79-4

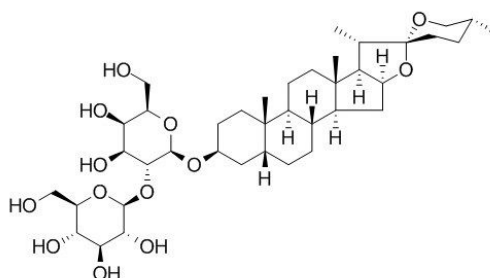
Purity: >=98%

M.F: C₃₉H₆₄O₁₃

M.W: 740.92

Physical Description: Powder

Synonyms: Timosaponina-; XilingsaponinA; Timosaponin A3; Filiferin B.



[Intended Use]

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

[Source]

The rhizomes of *Anemarrhena asphodeloides* Bunge.

[Biological Activity or Inhibitors]

Timosaponin A3 triggers liver injury through inducing ROS generation and suppressing

the expression of BA transporters.^[1]

Timosaponin A3 has selectively cytotoxic for cancer versus normal cells, the selective cytotoxic properties of it could be related to the inhibition of major oncogenic pathways and induction of ER stress.^[2]

Timosaponin A3 and Sarsasapogenin can inhibit nuclear factor-kB and p38 signaling in TNF- α stimulated BV2 microglia cells, they have the therapeutic potential for various neurodegenerative diseases caused by inflammation. ^[3]

Timosaponin A3 has application for reducing blood sugar and treating type-B diabete.^[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

HPLC-ELSD:

Mobile phase: Acetonitrile- H₂O=30:70 ;

Flow rate: 0.9 ml/min;

Column temperature: Room Temperature;

Drift tube temperature: 90 °C;

Flow rate of gas : 2.9 SLPM/min;

Carrier gas: N₂.

[Storage]

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

[References]

[1] Wu Z T, Qi X M, Sheng J J, *et al. Acta Pharmacol. Sin.*, 2014, 35(9):1188-98.

[2] Fong S, King F, Zhao X, *et al. Cancer Res.*, 2009, 69:18-22.

[3] Lee B, Jung K, Han S J, *et al. Planta Med.*, 2008, 74(9):965-965.

[4] Huang C G, Wang X L, Zhang Z Q. *CN20021060151*, 2002.

[5] Xia Y L, Li H, Zhu F. *Evaluation and analysis of Drug-use in Hospitals of China*, 2014,
14(1):55-7

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com