

Sarsasapogenin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Sarsasapogenin

Catalog No.: CFN99779

Cas No.: 126-19-2

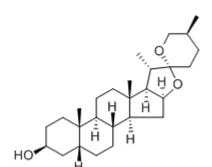
Purity: >=98%

M.F: C₂₇H₄₄O₃

M.W: 416.64

Physical Description: Powder

Synonyms:(25S)-5-beta-Spirostan-3-beta-ol;(3beta,5beta,25S)-Spirostan-3-ol.



[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]

Sarsasapogenin, a kind of mainly effective components of Anemarrhena asphodeloides

Bunge (Liliaceae) has the effects of being anti-diabetes and improving memory, it can

induce cell apoptosis through arrest of cell cycle in G(2)/M phase, it could be used as an

anti-cancer drug .[1]

Sarsasapogenin can improve memory by elevating the low muscarinic acetylcholine

receptor density in brains of memory-deficit rat models.[2]

Sarsasapogenin has antidepressant activity, the effect may involve the central

monoaminergic neurotransmitter systems.[3]

Sarsasapogenin exerts its antitumor activity through both reactive oxygen species

(ROS)-mediated mitochondrial dysfunction and endoplasmic reticulum (ER) stress cell

death. [4]

Sarsasapogenin has protective effects against glutamate-induced neurotoxicity in the

cultured cortical neurons in rats.^[5]

Sarsasapogenin can effectively promote the proliferation, differentiation and mineralization

of osteoblasts cultured in vitro, it also can inhibit the generation of osteoclasts from

marrow cells.[6]

[Solvent]

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

[HPLC Method]^[7]

HPLC-ELSD:

Mobile phase: Methanol -H2O=91:9;

Flow rate: 0.8 ml/min;

Column temperature: 25 °C;

Drift tube temperature: 80 °C

Flow rate of gas: 2.0 L/min.

Carrier gas: N2.

[Storage]

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

[References]

- [1] Bao W, Pan H, Lu M, et al. Cell Biol. Int., 2007, 31(9):887-92.
- [2] Hu Y, Xia Z, Sun Q. Brain Res., 2005, 1060(1-2):26-39.
- [3] Ren L X, Luo Y F, Li X, et al. Biol. Pharmaceut. Bull., 2006, 29(11):2304-6.
- [4] Shuying S, Yi Z, Rui Z, et al. Biochem. Bioph. Res. Co., 2013, 441(2):519-24.
- [5] Qi W, Sui H J, Qu W H, et al. Chinese Pharmacological Bulletin, 2013, 29(2):281-5.
- [6] Yang M, Ji H, Zhang S P, et al. Journal of China Pharmaceutical University, 2009, 179(3):430-6.
- [7] Cai L. China Pharmaceuticals, 2013, 22(19):42-3.

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