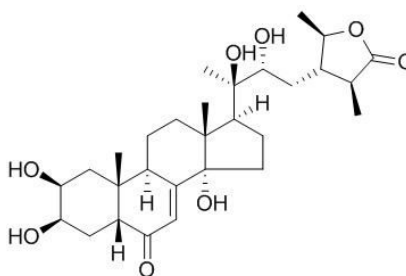


Cyasterone Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Cyasterone**Catalog No.:** CFN98594**Cas No.:** 17086-76-9**Purity:** >=98%**M.F:** C₂₉H₄₄O₈**M.W:** 520.65**Physical Description:** Powder

Synonyms: (22r,24s,25s,28r)-Gamma-lacton;2-beta,3-beta,14,20,22,28-Hexahydroxy-6-oxo-5-beta-stigmast-7-en-26-oicaci;(3S,4S,5R)-4-[(2R,3R)-2,3-Dihydroxy-3-[(2S,3R,5R,9R,10R,13R,14S,17S)-2,3,14-trihydroxy-10,13-dimethyl-6-oxo-2,3,4,5,9,11,12,15,16,17-decahydro-1H-cyclopenta[a]phenanthren-17-yl]butyl]-3,5-dimethyloxolan-2-one;(2beta,3beta,5beta,22R,24S,25S,28R)-2,3,14,20,22-pentahydroxy-26,28-epoxystigmast-7-ene-6,26-dione.

[Intended Use]

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

[Source]

The roots of *Cyathula officinalis Kuan*.

[Biological Activity or Inhibitors]

Cyasterone, a natural EGFR inhibitor, can inhibit growth of A549 and MGC823 cells, via regulating EGFR signaling pathway, it maybe a promising anti-cancer agent.^[1]

Cyasterone is the main phytoecdysteroid component from cultured plants of *Ajuga nipponensis*, and common in other *Ajuga* species; it has antifeeding activity.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O=1:4.9 ;

Flow rate: 0.9 ml/min;

Column temperature:Room Temperature;

The wave length of determination: 243 nm.

[Storage]

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

[References]

[1] Lu X, Qiu H, Yang L, *et al. Biomed. Pharmacother.*, 2016, 84:330-9.

[2] Zeng X N, Fang J F, Zhang S X, *et al. Insect Sci.*, 2008, 8(3):233-9.

[3] Ma Y, Bi K, Wang X, *et al. Chinese Traditional & Herbal Drugs*, 2000, 31:427-8.

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