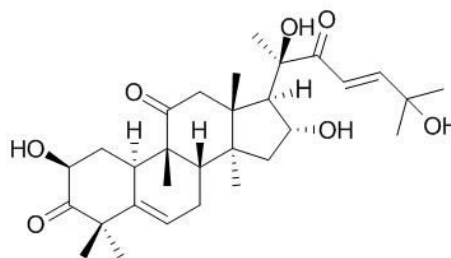


Cucurbitacin D Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Cucurbitacin D**Catalog No.:** CFN90209**Cas No.:** 3877-86-9**Purity:** >=98%**M.F:** C₃₂H₄₄O₇**M.W:** 516.67**Physical Description:** Powder**Synonyms:** (9β,10α,23E)-2β,16α,20,25-Tetrahydroxy-9-methyl-19-norlanosta-5,23-diene-3,11,22-trione.**[Intended Use]**

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

[Source]The rhizomes of *Hemsleya amabilis* Diels.**[Biological Activity or Inhibitors]**

Cucurbitacin D, isolated from the extract of trichosanthes, can induce apoptosis through caspase-3 and phosphorylation of JNK in hepatocellular carcinoma cells, suggests that it could be a valuable candidate for anti-tumor drug.^[1]

Cucurbitacin D may be a potential therapeutic agent for β -hemoglobinopathies, including sickle cell anemia and β -thalassemia.^[2]

Cucurbitacin D is a new inflammasome activator in macrophages, it can initiate immunomodulating activity in macrophages to lead to inflammasome activation as well as enhancement of LPS signaling. ^[3]

Cucurbitacin D induces cell cycle arrest and apoptosis by inhibiting STAT3 and NF- κ B signaling in doxorubicin-resistant human breast carcinoma (MCF7/ADR) cells, it could be used as a useful compound to treat adriamycin-resistant patients.^[4]

[Solvent]

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

[HPLC Method]^[1]

Mobile phase: Acetonitrile- 0.1% Trifluoroacetic ,gradient elution ;

Flow rate: 0.5 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

[Storage]

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

[References]

[1] Takahashi N, Yoshida Y, Sugiura T, *et al. Int. Immunopharmacol.*, 2009, 9(4):508-13.

[2] Kan L, Xing H, Zhang S, *et al. Blood Cell. Mol. Dis.*, 2010, 45(4):269-75.

[3] Song Y, Ding N, Kanazawa T, *et al. Int. Immunopharmacol.*, 2013, 17(4):1044-50.

[4] Jin M K, Kim S R, Hong S H, *et al. Mol. Cell. Biochem.*, 2015, 409(1-2):33-43.

[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