[ Product Information ]

Name: Cucurbitacin B
Catalog No.: CFN99129
Cas No.: 6199-67-3
Purity: > 98%
M.F: C_{32}H_{46}O_{8}
M.W: 558.70

Physical Description: Yellow powder


[ Intended Use ]

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

[ Source ]

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

Cucurbitacin B (cucB) is a triterpenoid constituent of Cucurbitaceae vegetables and a promising phytochemical for cancer prevention, cucB induces G(2) arrest and apoptosis through a STAT3-independent but ROS-dependent mechanism in SW480 cells.\(^1\)

Cucurbitacin B has antiproliferative effect, can induce apoptosis by inhibition of the JAK/STAT pathway and potentiates antiproliferative effects of gemcitabine on pancreatic cancer cells, may be an effective, new approach for the treatment of ER-, Her2/neu amplified, and p53 mutant breast cancers.\(^2,3\)

Combination of cucurbitacin B at a relatively low concentration with either of the chemotherapeutic agents, docetaxel (DOC) or gemcitabine (GEM), shows prominent antiproliferative activity against breast cancer cells without increased toxicity, this promising combination should be examined in therapeutic trials of breast cancer.\(^4\)

Cucurbitacin B has anti-cutaneous squamous cell carcinoma (CSCC) activity by inhibiting growth, arresting the cell cycle, and synergistically potentiate the anti-proliferative effect of cisplatin in CSCC.\(^5\)

Cucurbitacin B a selective inhibitor of JAK2/STAT3 signaling, could promote dendritic cells (DCs) differentiation and improve antitumor immunity, also significantly reduce the frequency of imCs in patients with lung cancers and enhance the effect of p53-specific CTL on tumor 16HBE/BPDE cells.\(^6\)

**[Solvent]**

Chloroform, Dichloromethane, DMSO, Acetone.

**[HPLC Method]**\(^7\)

Mobile phase: Methanol:H2O=70:30;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 230 nm.
[Storage]
2-8°C, Protected from air and light, refrigerate or freeze.

[References]

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