Jolkinolide B Datasheet

4th Edition (Revised in July, 2016)

[ Product Information ]

Name: Jolkinolide B
Catalog No.: CFN90245
Cas No.: 37905-08-1
Purity: >=98%
M.F: C_{20}H_{26}O_{4}
M.W: 330.42
Physical Description: Powder

Synonyms: (4αR,6αS,7αβ,10αR)-1,2,3,4,4αα,5,6,11αβ,11bα,11c-Decahydro-4,4,8,11cβ-tetramethylbisoxireno[1,10a:3,4]Phenanthro[3,2-b]furan-9(7αH)-one.

[ Intended Use ]

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

[ Source ]

The herbs of Stellera chamaejasme Linn.

[ Biological Activity or Inhibitors ]
Jolkinolide B can induce neuroendocrine differentiation of human prostate LNCaP cancer cell line.\textsuperscript{[1]}

Jolkinolide B can induce apoptosis in MDA-MB-231 cells through inhibition of the PI3K/Akt signaling pathway.\textsuperscript{[2]}

Jolkinolide B exhibits significant antitumor activity, it is able to enhance apoptosis of human leukemic HL-60 and THP-1 cells, at least in part, through downregulation of JAK2/STAT3 and bcl-2, and upregulation of Bax and cytosolic cytochrome c. \textsuperscript{[3]}

Jolkinolide B has potent anti-inflammatory activities, the mechanism may be attributed to its suppression of NF-κB and activation.\textsuperscript{[4]}

\textbf{[ Solvent ]}

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

\textbf{[ HPLC Method ]}\textsuperscript{[5]}

Mobile phase: Acetonitrile- H2O= 75:25;
Flow rate: 1.0 ml/min;
Column temperature: Room Temperature;
The wave length of determination: 250 nm.

\textbf{[ Storage ]}

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

\textbf{[ References ]}

[ Contact ]

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