[ Product Information ]

Name: Furanodienone
Catalog No.: CFN92028
Cas No.: 24268-41-5
Purity: > 95%
M.F: C_{15}H_{18}O_{2}
M.W: 230.3

Physical Description: Powder

Synonyms: (5E,9E)-8,11-Dihydro-3,6,10-trimethylcyclodeca[b]furan-4(7H)-one;(1E,4E)-8,12-Epoxygermacra-1(10),4,7,11-tetraen-6-one.

[ Intended Use ]

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

[ Source ]

The rhizoma of Curcuma zedoaria.

[ Biological Activity or Inhibitors ]
Furanodienone has potent free radical scavenging activity, it also shows potent activity against *E. coli* and *S. enterica enterica* (IZ = 18.0 ± 0.14 and 16.0 ± 0.10 respectively).[1]

Furanodienone treatment can inhibit E2-stimulation of estrogen response element (ERE)-driven reporter plasmid activity and ablated E2-targeted gene (e.g., c-Myc, Bcl-2, and cyclin D1) expression which results in the inhibition of cell cycle progression and cell proliferation, and in the induction of apoptosis.[2]

Furanodienone can induce cell cycle arrest and apoptosis by suppressing EGFR/HER2 signaling in HER2-overexpressing human breast cancer cells. [3]

Furanodienone shows pronounced toxicity against neonate larvae of *S. littoralis*. [4]

**[Solvent]**

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

**[HPLC Method]** [5]

Mobile phase: Acetonitrile-H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 214 nm.

**[Storage]**

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

**[References]**


[ Contact ]

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