[**Product Information**]

**Name:** Sphondin

**Catalog No.:** CFN98763

**Cas No.:** 483-66-9

**Purity:** > 98%

**M.F:** C_{12}H_{8}O_{4}

**M.W:** 216.2

**Physical Description:** Powder

**Synonyms:** 6-Methoxy-2-furo[2,3-h][1]benzopyranone.

---

[**Intended Use**]

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

---

[**Source**]

The fruits of *Heracleum sibiricum* L.

---

[**Biological Activity or Inhibitors**]
Sphondin, a furanocoumarin derivative isolated from Heracleum laciniatum, possesses an inhibitory effect on IL-1beta-induced increase in the level of COX-2 protein and PGE(2) release in A549 cells, the inhibitory mechanism, at least in part, through suppression of NF-kappaB activity, suggests that sphondin may have the therapeutic potential as an anti-inflammatory drug on airway inflammation.\[1\]

Sphondin, 8-methoxypsoralen, and khellin have delayed phototoxic effects in Aedes aegypti.\[2\]

Sphondin has NO production inhibitory activity, due to the effect of iNOS expression, but not by direct inhibition of iNOS enzyme activity, thus, sphondin may act as a potent inhibitor of NO production under tissue-damaging inflammatory conditions.\[3\]

Sphondin may have anticonvulsant activity.\[4\]

Sphondin shows anti-proliferative activity and causes G2/M arrest at concentrations of 0.05-15.0 uM, it may have anti-tumor effects.\[5\]

**[ Solvent ]**

Chloroform, Dichloromethane, DMSO, Acetone, etc.

**[ HPLC Method ]**\[6\]

Mobile phase: Methanol-3.5\% Tetrahydrofuran H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

**[ Storage ]**

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

**[ References ]**


[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