[**Product Information**]

**Name:** Xanthotoxin

**Catalog No.:** CFN98372

**Cas No.:** 298-81-7

**Purity:** > 98%

**M.F:** \( C_{12}H_8O_4 \)

**M.W:** 216.2

**Physical Description:** Powder

**Synonyms:** 9-Methoxy-7-furo[3,2-g][1]benzopyranone.

[**Intended Use**]

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

[**Source**]

The roots of *Heracleum repula*.

[**Biological Activity or Inhibitors**]

Xanthotoxin is a phytoalexin of Pastinaca sativa root, it has effects on growth and
detoxification in caterpillars.\textsuperscript{[1,2]}

Xanthotoxin has tritrophic effects on the Polyembryonic Parasitoid Copidosoma sosares (Hymenoptera: Encyrtidae), the tritrophic effects of xanthotoxin are likely to be due to the effects of xanthotoxin after direct contact in the hemolymph rather than to the effects of compromised host quality.\textsuperscript{[3]}

Xanthotoxin has anticonvulsant activities, it can protect the animals against maximal electroshock-induced seizures.\textsuperscript{[4]}

Xanthotoxin increases succinate dehydrogenase production in mitochondria and also in the cytoplasm, indicating changes in membrane permeability.\textsuperscript{[5]}

Xanthotoxin (methoxsalen) has mutagenic effect in the green alga Chlamydomonas reinhardii, it can causes an increase of the mutation frequency in the green alga Chlamydomonas reinhardii.\textsuperscript{[6]}

Xanthotoxin prevents bone loss in ovariectomized mice through the inhibition of RANKL-induced osteoclastogenesis, it may be considered to be a new therapeutic candidate for treating osteoporosis.\textsuperscript{[7]}

[ **Solvent** ]

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

[ **HPLC Method** ]\textsuperscript{[8]}

Mobile phase: Acetonitrile : H2O = 14:86 ;
Flow rate: 1.0 ml/min;
Column temperature: 30 °C;
The wave length of determination: 270 nm.

[ **Storage** ]

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


[ Contact ]

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