

## Isomeranzin Datasheet

5<sup>th</sup> Edition (Revised in January, 2017)

### [ Product Information ]

**Name:** Isomeranzin

**Catalog No.:** CFN99090

**Cas No.:** 1088-17-1

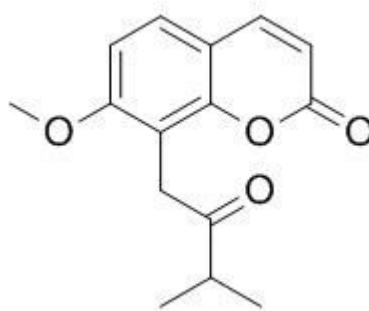
**Purity:** > 95%

**M.F:** C<sub>15</sub>H<sub>16</sub>O<sub>4</sub>

**M.W:** 260.3

**Physical Description:** Powder

**Synonyms:** 7-Methoxy-8-(3-methyl-2-oxobutyl)-2H-chromen-2-one.



### [ Intended Use ]

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

### [ Source ]

The peels of *Citrus maxima*.

### [ Biological Activity or Inhibitors ]

Isomeranzin has anti-inflammatory activity, it suppresses inflammation by inhibiting M1

macrophage polarization through the NF- $\kappa$ B and ERK pathway.<sup>[1]</sup>

## **[ Solvent ]**

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

## **[ HPLC Method ]<sup>[2]</sup>**

Mobile phase: Hexane-Ethyl acetate=75:25;

Flow rate: 1.6 ml/min;

Column temperature: 30 °C;

The wave length of determination:315 nm.

## **[ Storage ]**

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

## **[ References ]**

[1] Xu G, Feng L, Song P, *et al. Int. Immunopharmacol.*,2016 Sep;38:175-85.

[2] Dugo P, Mondello L, Cogliandro E, *et al. J. Agric. Food Chem.*,1996, 44(2):544-9.

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