

9-Methoxycanthin-6-one Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 9-Methoxycanthin-6-one

Catalog No.: CFN92011

Cas No.: 74991-91-6

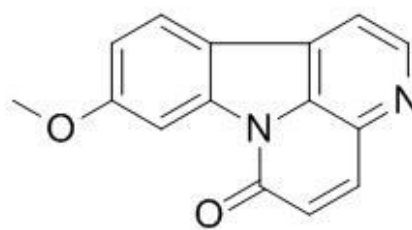
Purity: > 98%

M.F: C₁₅H₁₀N₂O₂

M.W: 250.3

Physical Description: Yellow powder

Synonyms: 9-Methoxy-6H-indolo[3,2,1-de][1,5]naphthyridin-6-one; 8-Methoxycanthin-6-one.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The herbs of *Eurycoma longifolia*.

[Biological Activity or Inhibitors]

9-Methoxycanthin-6-one from *E. longifolia* Jack explants with emphasis on the tap and fibrous roots, it has anti-tumour activity, is present in intact plant parts and in callus tissues of different explants.^[1]

9-Methoxycanthin-6-one shows significant cytotoxic activity against KB, LU-1, LNCaP, and HL-60 cancer cells with IC50 values around 1-4 µg/mL.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile H₂O=55:45;

Flow rate: 1.0 ml/min;

Column temperature:30 °C;

The wave length of determination:371 nm.

[Storage]

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

[References]

[1] Maziah M, Rosli N. *Methods in Molecular Biology*, 2009, 547:359-69.

[2] Tung M H, Duc H V, Huong T T, *et al. Scientia Pharmaceutica*, 2012, 81(3):819-31.

[3] Tan S, Yuen K H, Chan K L. *Planta Med.*, 2002, 68(4):355-8.

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