

4,5-Dimethoxycanthin-6-one Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 4,5-Dimethoxycanthin-6-one

Catalog No.: CFN99847

Cas No.: 18110-87-7

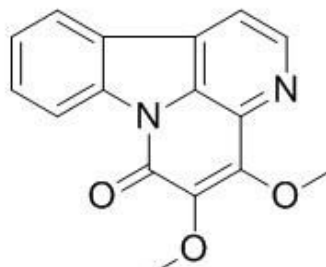
Purity: >=98%

M.F: C₁₆H₁₂N₂O₃

M.W: 280.3

Physical Description: Yellow powder

Synonyms: 4,5-Dimethoxy-6H-indolo[3,2,1-de][1,5]naphthyridin-6-one.



[Intended Use]

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

[Source]

The barks of *Picrasma quassioides* (D.Don) Benn.

[Biological Activity or Inhibitors]

4,5-Dimethoxycanthin-6-one shows cytotoxicity against the tumor cell lines, U937 and

HepG2.^[1]

4,5-Dimethoxycanthin-6-one has a strong inhibitory effect on cyclic adenosine monophosphate (cAMP) phosphodiesterase.^[2]

4,5-Dimethoxycanthin-6-one has antibacterial activity, it exhibits inhibition against *Staphylococcus aureus* and its drug-resistant strains. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: 0.2 M Phosphate buffer(pH 7.5)-Methanol,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Lee J J, Oh C H, Yang J H, *et al. Appl. Biol. Chem.*, 2009, 52(6):663-7.

[2] Oztürk N, Korkmaz S, Oztürk Y, *et al. Planta Med.*, 2006, 72(4):289-94.

[3] Yang Y, Luo S, Shen X, *et al. Yao Xue Xue Bao*,1979, 14(3):167-77.

[4] Lai Z, Ou G, Xiao S, *et al.Chinese Journal of Pharmaceutical Analysis*, 2011, 31(1):
15-8.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,

Wuhan Economic and Technological Development Zone,

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Wuhan, Hubei 430056,
China

Web: www.chemfaces.com

Tech Support: service@chemfaces.com