Natural Products

ChemFaces

Hypericin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Hypericin

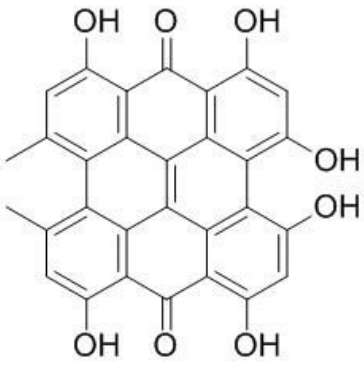
Catalog No.: CFN99188

Cas No.: 548-04-9

Purity: >=98%

M.F: $C_{30}H_{16}O_8$

M.W: 504.45



Physical Description: Yellow powder

Synonyms:1,3,4,6,8,13-Hexahydroxy-10,11-dimethylphenanthro[1,10,9,8-opqra]perylene-7,14-dione.

[Intended Use]

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

[Source]

The herb of *Hypericum perforatum L.*

[Biological Activity or Inhibitors]

Hypericin, a powerful naturally occurring photosensitizer, it can induce both apoptosis and necrosis in a concentration and light dose-dependent fashion, moreover, photodynamic therapy with hypericin results in the activation of multiple pathways that can either promote or counteract the cell death program.[1]

Hypericin and pseudohypericin show potent antiretroviral activity including anti-human immunodeficiency virus, which could be attributable to the inhibition of some phosphorylation involved by protein kinase C during viral infection of cells.[2]

Solubilized hypericin and pseudohypericin exert antidepressant activity in the forced swimming test. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: Acetonitrile-Methanol-10 mM Ammonium acetate (pH 5.0)=54:36:10 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 590 nm.

[Storage]

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

[References]

[1] Agostinis P, Vantieghem A, Merlevede W, *et al .Int. J. Biochem. Cell Biol., 2002, 34(3):221-41.*

[2] Takahashi I, Nakanishi S, Kobayashi E, *et al. Biochem. Biophys. Res. Commun., 1989 ,165(3):1207-12.*

[3] Butterweck V, Petereit F, Winterhoff H, *et al. Planta Med., 1998, 64(4):291-4.*

[4] Kamal A, Ahmad F J, Ahmad S, *et al. Asian J. Chem., 2012, 24(10):4689-92.*

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