

Product Name: Hypericin

Catalog No.: 1520

Batch No.: 4

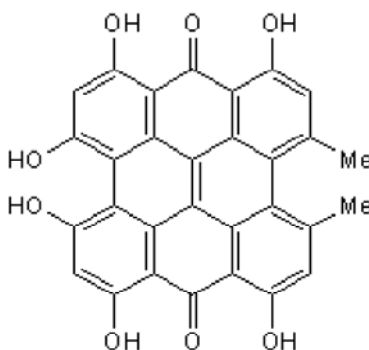
CAS Number: 548-04-9

EC Number: 208-941-0

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₁₆O₈
Batch Molecular Weight: 504.45
Physical Appearance: Brown solid
Solubility: ethanol to 10 mM with gentle warming
DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.1% purity
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Photosensitive antiviral, anticancer and antidepressant agent derived from *Hypericum perforatum* (St John's wort). Inactivates enveloped viruses (including HIV), inhibits tyrosine kinases (IC₅₀ = 7.5 μM) and is preferentially cytotoxic to tumor cells upon stimulation by visible light.

Physical and Chemical Properties:

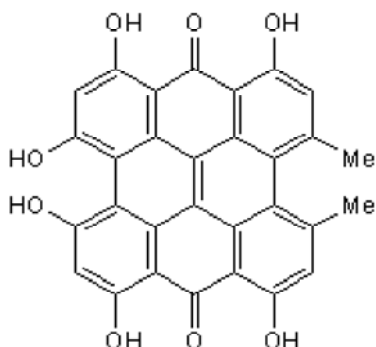
Batch Molecular Formula: C₃₀H₁₆O₈

Batch Molecular Weight: 504.45

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 10 mM with gentle warming

DMSO to 50 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Agostinis *et al* (2002) Hypericin in cancer treatment: more light on the way. *Int.J.Biochem.Cell Biol.* **34** 221. PMID: 11849990.

Hwang *et al* (2001) Inhibition of c-erbB-2 expression and activity in human ovarian carcinoma cells by hypericin. *Anticancer Res.* **21** 2649. PMID: 11724334.

Lenard *et al* (1993) Photodynamic inactivation of infectivity of human immunodeficiency virus and other enveloped viruses using hypericin and rose bengal: inhibition of fusion and syncytia formation. *Proc.Natl.Acad.Sci.U.S.A.* **90** 158. PMID: 7678335.

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