

10-acetonylknipholone cyclooxanthron

Structure:



Synonyms: [syn](#)

Compound ID: [00020303](#)

PubChem: [pub](#)

Molecular Formula: [C27H22O8](#)

SMILES: [COc1cc2OC3\(CC\(=O\)C\)c4c\(c2c\(c1C\(=O\)C\)O\)c\(C\)cc\(c4C\(=O\)c1c3cccc1O\)O](#)

InChI: [InChI=1S/C27H22O8](#)  
[/c1-11-8-16\(31\)22-24-19\(11\)23-18\(9-17\(34-4\)20\(13\(3\)29\)25\(23\)32\)35-27\(24,10-12\(2\)28\)14-6-5-7-15\(30\)21\(14\)2](#)  
[/h5-9,30-32H,10H2,1-4H3](#)

Properties:

|                        |   |                               |
|------------------------|---|-------------------------------|
| MW: 474.466            | cLogP: 3.3670001                              | HBD: 0.0                      |
| HBA: 6.75              | NRB: 7.0                                      | logBB: -1.715                 |
| logKp: -3.875          | logHERG: -4.901                               | #metab: 7                     |
| TPSA: 683.90002        | logS: -4.5029998                              | logKhsa: 0.308                |
| Lipinski Violations: 0 | Biological Activity: anti-plasmodial activity | Molecule Class: Quinone       |
|                        |   | Molecule                      |
|                        |   | Subclass: phenylanthraquinone |

Source Species  
Information:

- **Source:** Kniphofia foliosa
- **Known use:** Kniphofia foliosa is used medicinally for the treatment of abdominal cramps and for wound healing. The roots of this plant have been used for the treatment of abdominal cramps and for wound healing. The plant is also used to remove endoparasites in cattle.
- **Family:** Asphodelaceae
- **Kingdom:** Plantae
- **Availability of source sample:** National Herbarium, Addis Ababa, Ethiopia.
- **Reference:** voucher specimen (cipher ED-S459)
- **Country:** Ethiopia
- **Place of sample collection:** Chemistry Department, Addis Ababa University garden, Addis Ababa.

Information:

- Country: Ethiopia
  - Place of sample collection: Chemistry Department, Addis Ababa University garden, Addis Ababa.
  - GPS Location: Unavailable
  - Collected on: Feb. 1, 1993
  - Taxonomy: [Link to taxonomic data](#)
  - Wikipedia: [Link to wikipedia](#)
  - Additional Information: Reported in literature source as in February 1993.
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Reference information:

- Type: Journal article
- Reference: Natural Product Communications,2013,8(9),1261-1264
- Title: Antiplasmodial Quinones from the Rhizomes of Kniphofia foliosa
- PubMed: [Link to PubMed article](#)
- Link: [Link to reference](#)