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**Seal to avoid light.**

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3rd Edition (Revised in January, 2014)

### **[ Product Information ]**

**Name:** Kadsuracoccinic acid A

**Catalog No.:** CFN99029

**Cas No.:** 1016260-22-2

**Purity:** > 98%

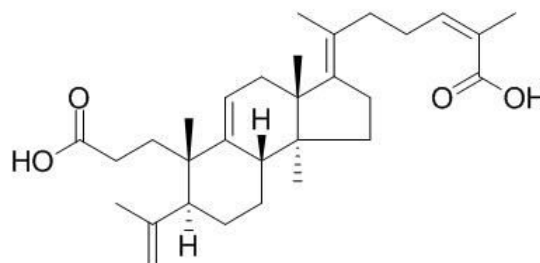
**M.F:** C<sub>30</sub>H<sub>44</sub>O<sub>4</sub>

**M.W:** 468.7

**Physical Description:** Powder

**Synonyms:**

1H-Benz[e]indene-6-propanoic acid, 3-[(4Z)-5-carboxy-1-methyl-4-hexen-1-ylidene]-2,3,3a,4,6,7,8,9,9a,9b-decahydro-3a,6,9b-trimethyl-7-(1-methylethenyl)-, (3Z,3aS,6S,7S,9aS,9bS)-



### **[ Intended Use ]**

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

## **[ Source ]**

The herb of *Kadsura coccinea*

## **[ Applications ]**

Kadsuracoccinic acid A induced significant cleavage arrest in the cells at a concentration 1 µg/mL [resulting in 85% cleavage arrest; IC<sub>50</sub> ) 0.32 µg/mL (0.68 µM)]. About 47% of the cell growth was inhibited by an anticancer drug, 5-fluorourasil (5-FU), at a concentration of 10 µg/mL [IC<sub>50</sub> ) 6.6 µg/mL (26.8 µM)].

As the early embryonic cell cycle only S and M phases and does not include the G1 and G2 phases,<sup>20,21</sup> arrest of the cell cycle by Kadsuracoccinic acid A is unrelated to the inhibition of reactions at the G1 to S phase transition. Arrest of the cell cycle embryos by Kadsuracoccinic acid A may be related to the preservation of the progression of the M phase.

## **[ Solvent ]**

Pyridine, DMSO, Methanol, Acetone, etc.

## **[ HPLC Method ]**

Mobile phase: Methanol : 1% Acetic acid H<sub>2</sub>O gradient elution;

Flow rate: 1.0 ml/min;

The wave length of determination: 204 nm.

## **[ Storage ]**

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

## **[ References ]**

1. *J. Nat. Prod.*, 2008, 71, 739-741.