

## Isocudraniaxanthone B

### Chemical Properties

CAS No.:	199851-52-0
Formula:	C <sub>19</sub> H <sub>18</sub> O <sub>6</sub>
Molecular Weight:	342.35
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	Isocudraniaxanthone B may have antimalarial activity.
Targets(IC <sub>50</sub> )	Antifection: None Sodium Channel: None
In vitro	Through bioassay-guided separation of the methanol extracts of Indonesian medicinal plants, three inhibitors of the Na <sup>+</sup> /H <sup>+</sup> exchange system, erythrinin B (2), euchrenone b10 (3), and 1,3,5-trihydroxy-4-(3-methylbut-2-enyl)xanthen-9-one (4), were isolated from the bark of <i>Erythrina variegata</i> (Fabaceae) (for 2) and the roots of <i>Maclura cochinchinensis</i> (Moraceae) (for 2, 3, 4). METHODS AND RESULTS: Compounds 2, 3, and 4 significantly inhibited the Na <sup>+</sup> /H <sup>+</sup> exchange system of arterial smooth muscle cells, with minimum inhibitory concentrations of 1.25, 1.25, and 10 micrograms/ml, respectively. Three new prenylated xanthenes named Isocudraniaxanthone B (5) and isocudraniaxanthone A (7) and isoalvaxanthone (9) were also isolated from <i>M. cochinchinensis</i> and the chemical structures were elucidated on the bases of their chemical and physicochemical properties.

### Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.921 mL	14.605 mL	29.210 mL
5 mM	0.584 mL	2.921 mL	5.842 mL
10 mM	0.292 mL	1.460 mL	2.921 mL
50 mM	0.058 mL	0.292 mL	0.584 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Indonesian medicinal plants. XXI. Inhibitors of Na<sup>+</sup>/H<sup>+</sup> exchanger from the bark of *Erythrina variegata* and the roots of *Maclura cochinchinensis*. Chem Pharm Bull (Tokyo). 1997 Oct;45(10):1615-9.

Inhibitors · Natural Compounds · Compound Libraries

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