

Datasheet

Inhibitors / Agonists / Screening Libraries

A DRUG SCREENING EXPERT

Product Name : Isocudraniaxanthone B
Catalog Number : TN4276
CAS Number : 199851-52-0
Molecular Formula : C19H18O6
Molecular Weight : 342.35

Description: Isocudraniaxanthone B may have antimalarial activity.

Storage: 2 years -80°C in solvent; 3 years -20°C powder;

| | | |
|------------------------|----------------|--|
| Receptor (IC50) | Antifection | |
| | Sodium Channel | |

In vitro Activity

Through bioassay-guided separation of the methanol extracts of Indonesian medicinal plants, three inhibitors of the Na⁺/H⁺ 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 *Erythrina variegata* (Fabaceae) (for 2) and the roots of *Maclura cochinchinensis* (Moraceae) (for 2, 3, 4). **METHODS AND RESULTS:** Compounds 2, 3, and 4 significantly inhibited the Na⁺/H⁺ 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 *M. cochinchinensis* and the chemical structures were elucidated on the bases of their chemical and physicochemical properties.

Reference

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

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