

## Abstract

Two bisbenzylisoquinoline and one hasubanane alkaloids: (–)-pseudocurine (**1**), (–)-pseudoisocurine (**2**) and (–)-10-oxoaknadinine (**3**), were isolated from leaf extract of *Stephania abyssinica*, a plant used in traditional medicine in South Nyanza region of Kenya. They were characterized using 1D (<sup>1</sup>H, <sup>13</sup>C and DEPT) and 2D (COSY, NOESY, HMQC and HMBC) NMR techniques. (–)-Pseudocurine (**1**) and (–)-pseudoisocurine (**2**) exhibited strong to moderate anti-plasmodial activity while (–)-10-oxoaknadinine (**3**) showed moderate to mild activity.

## Graphical abstract

From the leaves of *Stephania abyssinica*, three alkaloids were isolated: (–)-pseudocurine (**1**), (–)-pseudoisocurine (**2**) and (–)-10-oxoaknadinine (**3**). (–)-Pseudocurine and (–)-pseudoisocurine showed strong anti-plasmodial activity against both chloroquine-susceptible D6 and resistant strains of *Plasmodium falciparum* (IC<sub>50</sub> 0.29 ± 0.00 and 0.31 ± 0.01 µg/ml, respectively) while (–)-pseudoisocurine exhibited moderate and mild activity (0.75 ± 0.11 and 1.65 ± 0.03 µg/ml).