

## Bruceantinol A

## Chemical Properties

CAS No. :	948038-36-6
Formula:	C <sub>29</sub> H <sub>36</sub> O <sub>13</sub>
Molecular Weight:	592.594
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Bruceantinol A is a natural product from Brucea javanica.
In vitro	Boiled extracts derived from 28 Indonesian medicinal plants were screened for their antibabesial activity against Babesia gibsoni in vitro. METHODS AND RESULTS: Of these extracts, the fruit of Brucea javanica was the most active in inhibiting parasite growth at a concentration of 10 microg/mL. Bioassay-guided fractionation of the fruit extract of Br. javanica led to the isolation of two new quassinoids, bruceantinol B and bruceine J, and the structures of these compounds were elucidated on the basis of their spectroscopic data and by chemical transformation to known compounds. In addition, the known quassinoids bruceines A-D, bruceantinol, and yadanzolid A were isolated. CONCLUSIONS: Antibabesial activities were also examined in vitro, and bruceine A and bruceantinol were shown to be more potent than diminazene aceturate, a drug (IC <sub>50</sub> = 103 ng/mL) used clinically against B. gibsoni, with IC <sub>50</sub> values of 4 and 12 ng/mL, respectively.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6875 mL	8.4375 mL	16.8751 mL
5 mM	0.3375 mL	1.6875 mL	3.375 mL
10 mM	0.1688 mL	0.8438 mL	1.6875 mL
50 mM	0.0338 mL	0.1688 mL	0.3375 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Screening of Indonesian medicinal plant extracts for antibabesial activity and isolation of new quassinoids from *Brucea javanica*. *J Nat Prod.* 2007 Oct;70(10):1654-7.

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