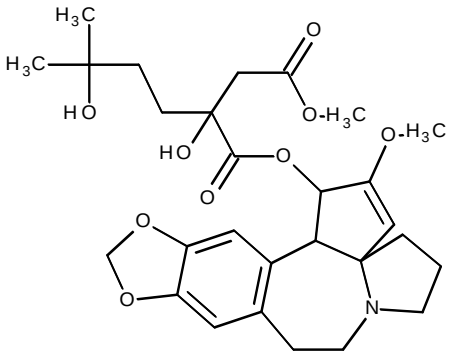
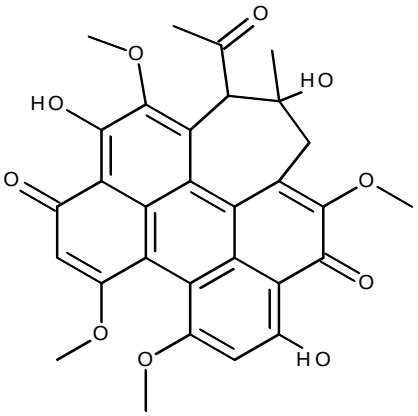
TABLE S1 Complete list of compounds from primary screen showing more than 70% inhibition against CHIKV-infection upon treatment at 10 μM concentrations.

Compound	Percentage Inhibition (%)
Nigericin Na	100.00
Dipterocarpol	100.00
Anisomycin	99.962
Aloe-emodine	99.89
Retrorsine	99.84
Mycophenolic acid	99.82
Harringtonine	99.76
Tetrahydrolipstatin	99.73
Tunicamycin B	99.7
Corydaline	99.69
Ellagic acid	99.61
Lycorine HCl	99.59
Usnic acid, (+)-	99.54
Rhapontin	99.53
Emetine 2HCl	99.50
Ferutinin	99.43
Diacetoxyscirpenol	99.27
Bleomycin	99.27
Cycloheximide	99.10
Acivicin	99.07
Narasin	98.89
Jervine	98.35
Hypocrellin B	98.08
Valinomycin	97.79
Hypocrellin A	97.64
Menadione	97.53
E-64	95.94
Magnolol	95.74
Daunorubicin HCl	95.56
Nonactin	95.31
Antimycin A1	94.99
Ochratoxin A	94.95
Papaverine HCl	94.76
Parthenolide	93.95
Vinblastine sulfate	93.75
Chelidonine, (+)-	93.22
Rottlerin	92.81
Grayanotoxin III	91.39

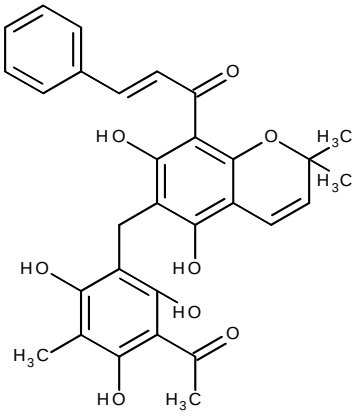
Gossypol	90.89
Sanguinarine	90.83
Mithramycin A	87.96
Actinomycin D	86.92
Cyclopiazonic acid	79.93
Harmine HCl	73.68



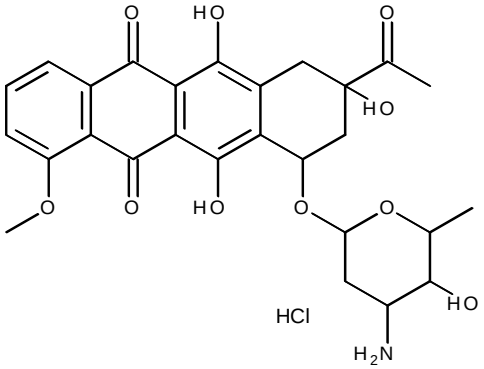
Harringtonine



Hypocrellin A

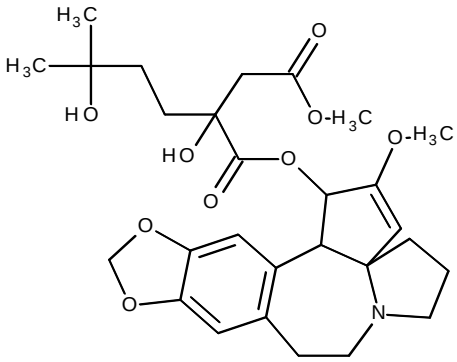


Rottlerin

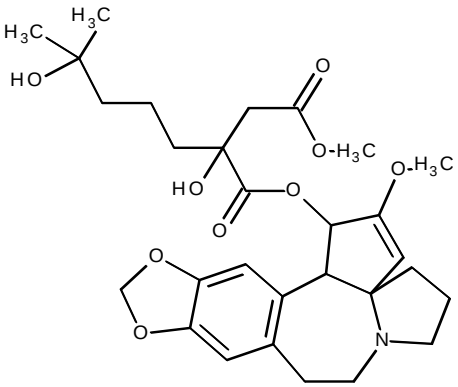


Daunorubicin HCl

FIG S1 Structures of compounds selected for secondary assays to confirm their *in vitro* anti-CHIKV activity.



Harringtonine



Homoharringtonine

FIG S2 The structures of harringtonine and homoharringtonine differ by one methyl group on the side chain.

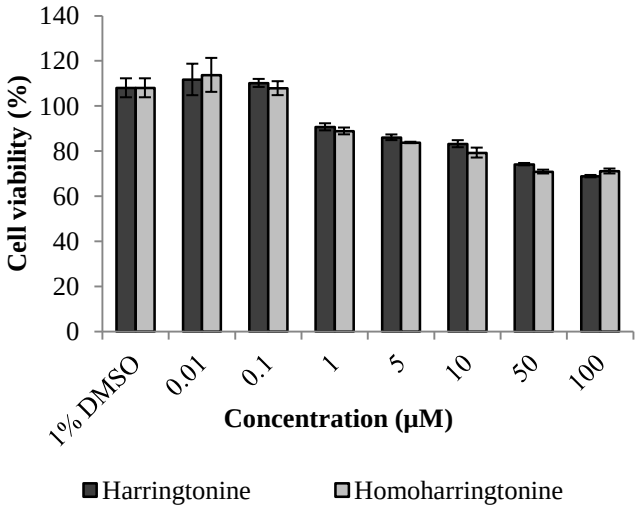


FIG S3 Treatment of BHK21 cells with harringtonine or homoharringtonine over 3 days results in minimal cytotoxicity at drug concentrations of up to 10 µM. This indicates that antiviral effects of both drugs may be achieved at concentrations that are non-cytotoxic to cells. Error bars represent standard errors of triplicate means.