**Table S1.** Antiviral activity of certain derivatives from some classes of diterpenes and their mechanisms of action. aAbietane, bJatrophane, cSegetane, dPepluane, eParaliane derivatives.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ref. | Mechanism of action | antiviral activity | Compound | N |
| 12,13 | Inhibition of 3CLPRO | SARS coronavirus | Ferruginol | 1a |
| 12,13 | Inhibition of 3CLPRO | SARS coronavirus | dehydroabieta-7-one | 2a |
| 12,13 | Inhibition of 3CLPRO | SARS coronavirus | Sugiol | 3a |
| 12,13 | Inhibition of 3CLPRO | SARS coronavirus | 8β-**hydroxyabieta**-9(11),13-dien-12-one | 4a |
| 12,13 | Inhibition of 3CLPRO | SARS coronavirus | 6,7-dehydroroyleanone | 5a |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV | (2R,3R,4S,5R,7S,8R,13R,15R)-3,5,7,8,15-pentaacetoxy-2-hydroxy-9,14-**dioxojatropha**-6(17)-11E-diene | 6b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,15R)-3,5,7,15-tetraacetoxy-2-hydroxy-8-isobutoxy-9,14-**dioxojatropha**-6(17)-11E-diene | 7b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,15R)-3,5,7,15-tetraacetoxy-2-hydroxy-8-tiglyloxy-9,14-**dioxojatropha**-6(17)-11E-diene | 8b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,15R)-3,5,7,15-tetraacetoxy-2-hydroxy-8-benzoyloxy-9,14-**dioxojatropha**-6(17)-11E-diene | 9b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,15R)-2,3,5,7,8,15-hexaacetoxy-9,14-**dioxojatropha**-6(17)-11E-diene | 10b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,15R)-2,3,5,7,15-pentaaacetoxy-8-tiglyloxy-9,14-**dioxojatropha**-6(17)-11E-diene | 11b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,15R)-2,3,5,7,15-pentaacetoxy-8-benzoyloxy-9,14-**dioxojatropha**-6(17)-11E-diene | 12b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,14S,15R)-5,7,8-triacetoxy-3-benzoyloxy-14,15-dihydroxy-9-**oxojatropha**-6(17)-11E-diene | 13b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,14S,15R)-5,7-diacetoxy-3-benzoyloxy-8-isobutoxy-14,15-dihydroxy-9-**oxojatropha**-6(17)-11E-diene | 14b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,14S,15R)-5,7-diacetoxy-3-benzoyloxy-8-(pentan-2-yloxy)-14,15-dihydroxy-9-**oxojatropha**-6(17)-11E-diene | 15b |
| 14 | Inhibition of replication via protein kinase C isozymes modulation | CHIKV, HIV-1,2, SFV, Sindbis virus | (2R,3R,4S,5R,7S,8R,13R,14S,15R)-5,7,14-triacetoxy-3-benzoyloxy-8,15-dihydroxy-9-**oxojatropha**-6(17)-11E-diene | 16b |
| 15 | Inhibition of replication | HIV-1 | (2S,3S,4R,5R,6R,11R,13S,14R,15R,16R)-5,11,14-triacetoxy-3-benzoyloxy-15-hydoxy-**segetan**-8-ene | 17c |
| 15 | Inhibition of replication | HIV-1 | (2S,3S,4R,5R,6R,8R,11R,12S,13S,14R,15R,16R)-5,11,14-triacetoxy-3-benzoyloxy-15-hydoxy-**segetane** | 18c |
| 15 | Inhibition of replication | HIV-1 | (3S,4R,5R,6R,8R,11R,12S,13R,14R,15R,16R)-5-(2-acetoxyacetoxy)-14-acetoxy-3-benzoyloxy-15-hydoxy-**segetane** | 19c |
| 15 | Inhibition of replication | HIV-1 | (2S,3S,4R,5R,6R,8R,11S,12S,13R,14R,15R,16R)-5-(2-acetoxyacetoxy)-11,14-diacetoxy-3-benzoyloxy-15-hydoxy-**segetane** | 20c |
| 15 | Inhibition of replication | HIV-1 | (2S,3S,4R,5R,6R,8R,12S,13R,14R,15R,16R)-14-acetoxy-3-benzoyloxy-5-(2-hydroxyacetoxy)-15-hydoxy-**segetane** | 21c |
| 16 | n.d. | HSV-2 | (2S,3S,4R,5R,6R,8S,9S,11R,13S,14S,15R,16R)-5,8,9,15-tetraacetoxy-3-benzoyloxy-11,16-dihydroxy-**pepluane** | 22d |
| 15 | Inhibition of replication | HIV-1 | (1R,2S,3R,4R,5R,6R,8S,12S,13S,14R,15R)-1,5,8,14-tetraacetoxy-3-benzoyloxy-15-hydroxy-**paraliane** | 23e |
| 15 | Inhibition of replication | HIV-1 | (2S,3R,4R,5R,6R,8S,12S,13S,14R,15R)-5,8,14-triacetoxy-3-benzoyloxy-1,15-dihydroxy-**paraliane** | 24e |