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Design, synthesis, and antiviral activities of 1,5-benzothiazepine derivatives containing pyridine moiety

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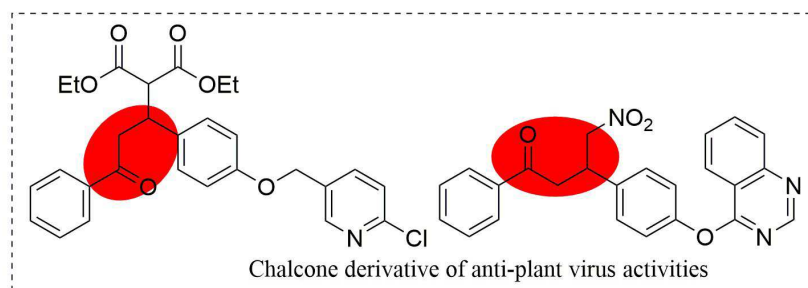
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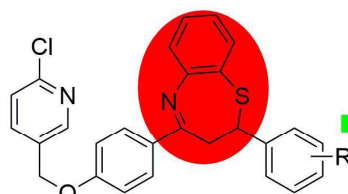
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Graphical Abstract

A series of novel benzothiazepine derivatives containing pyridine moiety were synthesized and screened for their antiviral activity against TMV in vivo.



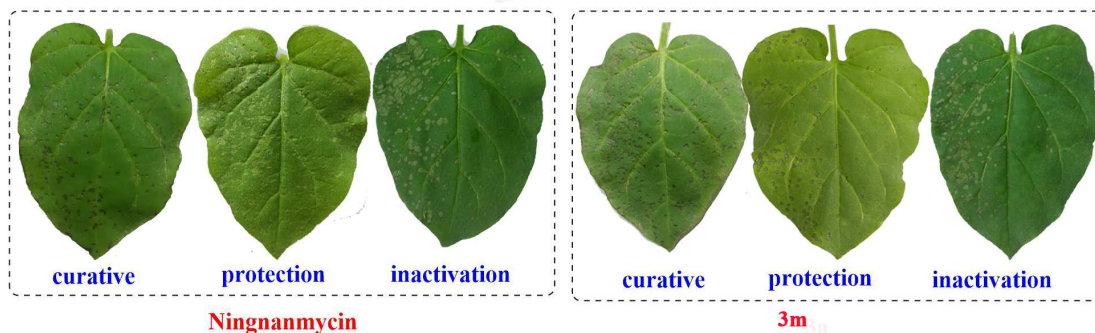
Structural modification



Most compounds possess better curative, protection and inactivation activities than Ningnanmycin against TMV in vivo. Remarkably, compound 3m was identified as an excellent lead compound.

Right leave: smeared with compound
Left leave: not treated with compound

Anti-TMV activities



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