

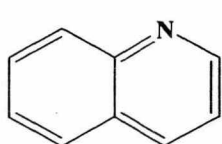
## Antiallegic effects of quinolines on histamine-induced tracheal contraction in guinea-pigs

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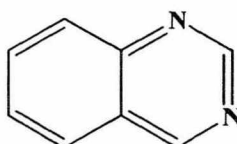
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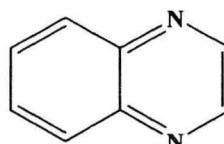
Quinoline was isolated from the leaves of *Ruta chalepensis* through bioassay-guided fractionation. This isolated compound possesses a strong inhibitory activity on histamine-induced tracheal contraction in guinea-pigs. At 50 and 30  $\mu\text{g/mL}$ , quinoline exhibited 62.3 and 46.3% relaxant effect of tracheal contraction, respectively. Structure-activity relationship revealed that quinazoline and quinoxaline had 40.6 and 42.1% relaxant effect at 50  $\mu\text{g/mL}$ , respectively. The results indicate that *R. chalepensis* extract and quinolines have the relaxant effects in the antiallegic activity.



quinoline



quinazoline



quinoxaline

### References

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