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Silver-Catalyzed Intramolecular Cyclization of Guanidine Motifs onto Alkynes

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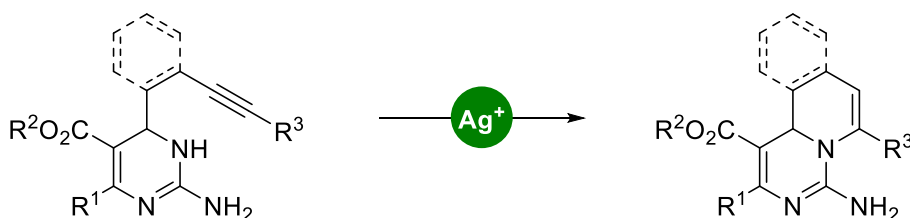
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ABSTRACT

Organic compounds containing guanidine groups in their structures have received significant attention from the scientific community, possibly most likely due to their numerous potential biological applications.¹ In this regard, we became interested in developing an intramolecular cyclization strategy promoted by a metal catalyst aiming at the preparation of polycyclic guanidine derivatives,² and a silver salt was found to be a convenient choice as a promoter of this transformation.



Studies involving the scope of this transformation, key aspects of reaction mechanism and potential biological activities of these compounds are being currently investigated.

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