

CHAPTER 3

CONCLUSIONS

This study describes the first ever successful examples of the synthesis of cyclic vinyl bromides by ring-closing metathesis (RCM). The RCM of sulfamide-linked vinyl bromides has been shown to be effective to yield 7-membered cyclic sulfamide. In contrast, the corresponding reactions to form 5- and 6-membered rings were not generally successful. We believe that the steric hindrance between bromine atom and carbonyl group of the ester group. In the majority of the unsuccessful reactions starting materials were recovered, although some cross-metathesis products were obtained under more concentrated conditions. The metathesis products have been suggested as a useful building block for the subsequent synthetic transformations especially Suzuki cross coupling reaction. The metathesis methodology was also applied to the synthesis of tricyclic compound which may have the interested biological activities.