

CONCLUSION

In conclusion, various compounds were isolated from extract leaf skin of *A. barbadensis*. All the compounds were compared with the literature to identify the compound and subjected for bioactivity screening by enzymatic assay. In bioassay of PDE4D, active compounds 13 (IC_{50} 9.25 μ M) and 14 (IC_{50} 4.42 μ M) possess good PDE4D inhibition. However, from the docking study, it was observed that compound 13 and 14, due to bulkiness in their molecular structure, was unable to enter into the active site groove, compound 12 on the other hand, due to smaller size, was able to get within the groove, similar is in case of rolipram. These achievements provide evidences for the use of *A. barbadensis* leaf skin as functional feed additives for anti-inflammatory purpose. However, further investigation is necessary in order to explore their mechanism of inhibition.

ACKNOWLEDGEMENT

The authors are thankful to Nalanda College of Pharmacy for allowing us to undergo the research activity.

CONFLICT OF INTREST

Nil

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