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| Title: | An entry into new classes of optically active aza-oxo polyether macrocycles via the ring closing metathesis-based macrocyclization |
| Authors: | Naveen (/jspui/browse?type=author&value=Naveen) Babu, S.A. (/jspui/browse?type=author&value=Babu%2C+S.A.) |
| Keywords: | Grubbs's catalyst Macrocyclization Macrocyclic olefins Aza-oxo polyether macrocycles Ring closing metathesis |
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| Publisher: | Elsevier Ltd |
| Citation: | Tetrahedron Letters, 57(50), pp. 5690-5694 |
| Abstract: | We report the application of ring closing metathesis-based macrocyclization route for synthesizing 22–36 membered optically active aza-oxo crowns/polyether macrocycles. While the RCM-based synthesis of polyether macrocycles was well explored in the literature, the synthesis of optically active polyether macrocycles was not explored via the RCM reaction. Accordingly, the present method reveals an efficient assembling of a library of new classes of optically active aza-oxo polyether macrocycles from optically active RCM precursors, which were assembled from easily available linkers, chiral α -methylbenzylamine and amino alcohol building blocks under simple reaction conditions. |
| URI: | https://www.sciencedirect.com/science/article/pii/S0040403916314824 (https://www.sciencedirect.com/science/article/pii/S0040403916314824) http://hdl.handle.net/123456789/2535 (http://hdl.handle.net/123456789/2535) |
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