

**Source:** [Heravi, M.M.](#), Zadsirjan, V., Daraie, M. (2017), Recent advances in the applications of SAMP/RAMP as chiral auxiliaries in asymmetric synthesis, Journal of Current Organic Synthesis, 14(1), [doi: 10.2174/1570179413666160624112433](#)

## Recent advances in the applications of SAMP/RAMP as chiral auxiliaries in asymmetric synthesis

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### Abstract

Nowadays, the stereoselective synthesis of naturally occurring compounds showing biological activity has attracted much attention and stirred up the interest of organic synthetic chemists. Apparently, the multi-step total synthesis of such complex molecules bearing several stereogenic centers demands the development of the efficient and operational strategies for the induction of chirality in a certain step (steps). Among the most practical approaches in the area of stoichiometric asymmetric synthesis, the SAMP/RAMP hydrazone methodology has been found to be a powerful tool in the synthesis of numerous naturally occurring, and bioactive compounds. In this report, we try to highlight the applications of this methodology in asymmetric synthesis.

### Keywords

Asymmetric synthesis, Chiral auxiliaries, SAMP/RAMP, Stereoselective synthesis