

A short formal total synthesis of strychnine with a samarium diiodide induced cascade reaction as the key step.

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Abstract

Brevity is the soul of wit! The power of SmI_2 -induced cyclizations has been demonstrated by the shortest formal total synthesis of ($\pm$)-strychnine to date, which features a new cascade reaction. Only one protective-group transformation is required. The ketyl-aryl coupling/acylation cascade also efficiently proceeds with other indole derivatives with excellent diastereoselectivities.

Beteiligte Forschungseinheiten

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