Synthesis, 2001, 221-224.

A New and Convenient Synthesis of 3-Aryl-3-hydroxyisoindol-1-ones and Their Aza Analogs

Yuko Saito (斉藤優子), Takeshi Sakamoto (坂本武史), Yasuo Kikugawa (菊川靖雄)*

Faculty of Pharmaceutical Sciences, Josai University, Sakado, Saitama 350-0295, Japan

A simple and convenient synthesis of 3-aryl-3-hydroxyisoindol-1-ones and their aza analogs is described. The utility of this synthesis is demonstrated by the preparation of 4-arylphthalazinones and their aza analogs.

a: X=Y=C; b: X=C, Y=N; c: X=N, Y=C $Ar=C_6H_5$, p-MeC $_6H_4$, p-FC $_6H_4$, p-CIC $_6H_4$, 3,4-diCIC $_6H_3$

 $Ar=C_6H_5$, $p-MeC_6H_4$