

Invention relates to the field of organic chemistry, specifically to 4'-alkyl-substituted derivatives of 3-hydroxy-2-phenyl-4H-chromen-4-one and method for obtaining them, which involves the reaction of 3-(benzyloxy)-2-(4-bromophenyl)-4H-chromen-4-one and an alkenyl pinacol boronate in the presence of potassium carbonate and Buchwald catalyst (3rd generation, XPhos Pd G3) in dioxane at 70 °C for 24 hours, after which intermediate is subjected to reduction for 24 hours with gaseous hydrogen in methanol in the presence of trifluoroacetic acid and Pd/C catalyst to form final product.