

3. Synthesis of phenylacetyl ester of *N*-(9-fluorenylmethoxycarbonyl)-(2-acetamido-3,4,6-tri-*O*-acetyl-2-deoxy- β -D-glucopyranosyl)-L-serine

Conjugation reaction of phenylacetyl ester of *N*-9-fluorenylmethoxycarbonyl-L-serine with 2-acetamido-3,4,6-tri-*O*-acetyl-2-deoxy- α -D-glucopyranosyl chloride

A solution of phenylacetyl ester of *N*-9-fluorenylmethoxycarbonyl-L-serine (104 mg, 0.23 mmol) in “extra dry” 1,2-dichloroethane (5.0 mL) was cooled to 0 °C. The silver triflate (0.55 mmol) was added and stirred for 10 min at 0 °C. A solution of 2-acetamido-2-deoxy-3,4,6-tri-*O*-acetyl- α -D-glucopyranosyl chloride (166 mg, 0.46 mmol) in 2.0 mL of “extra dry” 1,2-dichloroethane was added dropwise and stirred on magnetic stirrer for 1 h at the temperature 0 °C and for 16 h at the room temperature. Reaction was monitored by a thin-layer chromatography (TLC): toluene:ethyl acetate (1:1). The reaction mixture was washed with *N*-ethyldiisopropylamine (0.1 mL) and concentrated (with small amount of toluene) and the residue was purified by a silica gel column chromatography [eluent:EtOAc–Hex (7:3)]. The phenylacetyl ester of *N*-(9-fluorenylmethoxycarbonyl)-(2-acetamido-3,4,6-tri-*O*-acetyl-2-deoxy- β -D-glucopyranosyl)-L-serine was obtained (119 mg).