T. J. WADZINSKI, A. STEINAUER, L. HIE, G. PELLETIER, A. SCHEPARTZ*, S. J. MILLER*
(YALE UNIVERSITY, NEW HAVEN, USA)

Rapid Phenolic O-Glycosylation of Small Molecules and Complex Unprotected Peptides in Aqueous Solvent

Nat. Chem. 2018, 10, 644–652.

O-Glycosylation of Unprotected Peptides

Significance: A number of glycosylated natural products and synthetic glycopeptides can be found in important biochemical probes and therapeutic agents. The authors have developed an efficient phenolic O-glycosylation of small molecules, unprotected tyrosine, and complex unprotected peptides in aqueous solvent.

Comment: The glycosylation, employing glycosyl fluoride donors and Ca(OH)_2 , proceeds rapidly at room temperature to give high yields of the glycosylated products.

SYNFACTS Contributors: Hisashi Yamamoto, Takahiro Sawano
Synfacts 2019, 15(04), 0445 Published online: 19.03.2019
DOI: 10.1055/s-0037-1612282; Reg-No.: H01319SF

Category

Peptide Chemistry

Key words

glycosylation

fluoroglycosides

calcium hydroxide

Synfact
of the
Month