

P. WANG, Y. CHENG, C. WU, Y. ZHOU, Z. CHENG, H. LI, R. WANG*, W. SU*, L. FANG*
(LANZHOU UNIVERSITY AND SHENZHEN INSTITUTE OF ADVANCED TECHNOLOGY,
SHENZHEN, P. R. OF CHINA)

Tyrosine-Specific Modification via a Dearomatization–Rearomatization Strategy: Access to Azobenzene Functionalized Peptides

Org. Lett. 2021, 23, 4137–4141, DOI: 10.1021/acs.orglett.1c01013.

Synthesis of Azobenzene-Functionalized Peptides by Modification of Tyrosine-Containing Peptides

Category

Peptide Chemistry

Key words

peptide modification

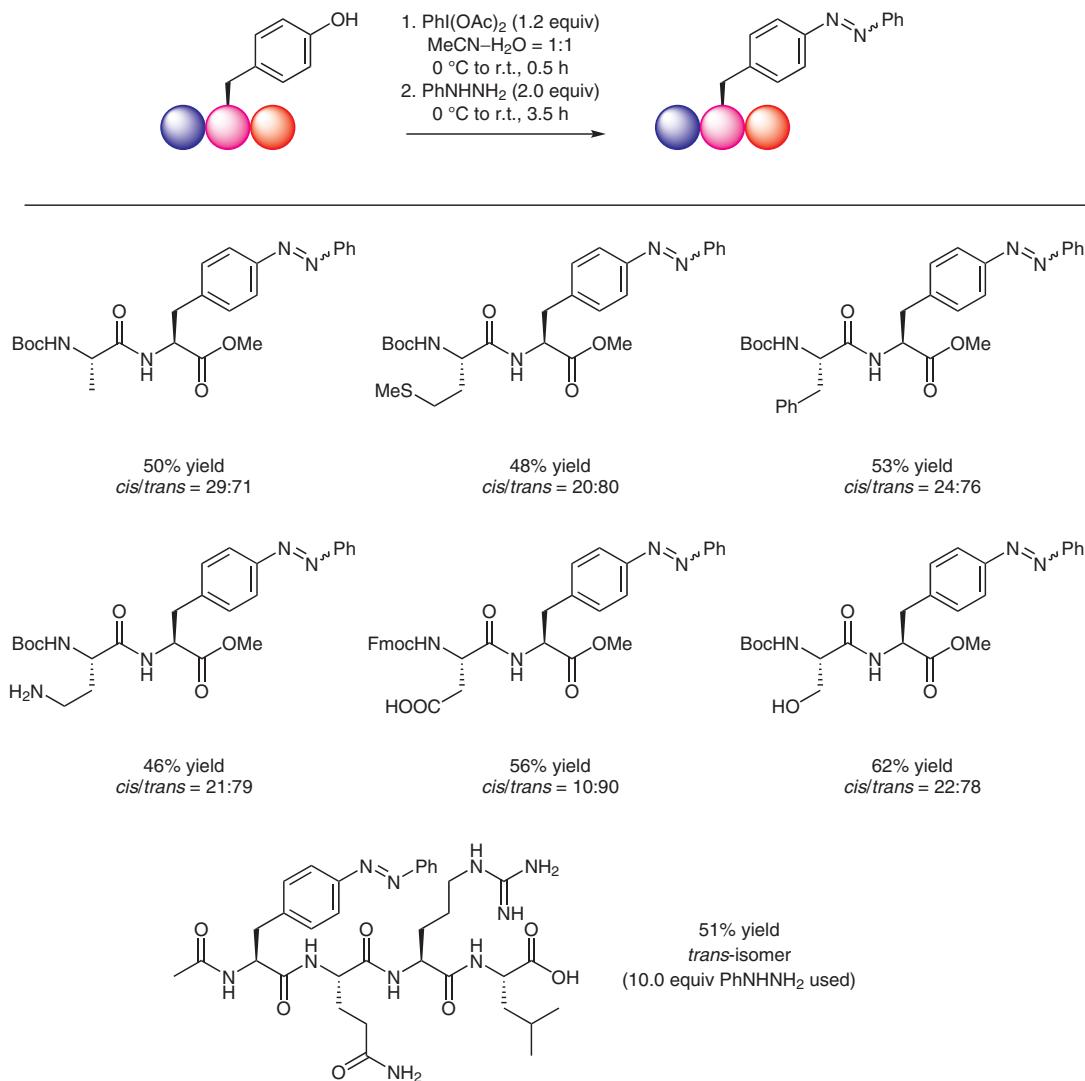
tyrosine

phenylhydrazine

azobenzenes

chemoselectivity

Synfact
of the
Month



Significance: Azobenzene-functionalized peptides are important because of their distribution in photoresponsive biosystems. The authors report a new strategy for preparing azobenzene-functionalized peptides from tyrosine-containing peptides and phenylhydrazine.

Comment: By using (diacetoxyiodo)benzene, various peptides containing an azobenzene motif were synthesized with good chemoselectivity and site selectivity in moderate yields.

SYNFACTS Contributors: Hisashi Yamamoto, An Wu
Synfacts 2021, 17(08), 0941 Published online: 20.07.2021
DOI: 10.1055/s-0040-1706271; Reg-No.: H06321SF