Supplementary Material

Fast Ga(OTf)$_3$-catalyzed nucleophilic substitution of propargyl alcohols

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$^{13}$C NMR Spectrum of 4-(1-(3,4-dimethylphenyl)-3-phenylprop-2-yn-1-yl)phenol 2j
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$^{13}$C NMR Spectrum of 4-(1-(4-(benzyloxy)phenyl)-3-phenylprop-2-yn-1-yl)phenol 2k
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$^{13}$C NMR Spectrum of 4-(1-(4-chlorophenyl)-3-phenylprop-2-yn-1-yl)phenol 2m
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$^{13}$C NMR Spectrum of 2-(1-(3,4-dimethylphenyl)-3-phenylprop-2-yn-1-yl)furan 2r
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$^{13}$C NMR Spectrum of 2-(1-(3,4-dimethoxyphenyl)-3-phenylprop-2-yn-1-yl)furan 2s
HRMS SPECTRUM

MS Spectrum of 3-(1-(3,4-dimethylphenyl)-3-phenylprop-2-yn-1-yl)-6-nitro-1H-indole 2a

MS Spectrum of 3-(1-(4-benzylxy)phenyl)-3-phenylprop-2-yn-1-yl)-6-nitro-1H-indole 2b

MS Spectrum of 3-(1-(4-chlorophenyl)-3-(4-methoxyphenyl)prop-2-yn-1-yl)-6-nitro-1H-indole 2c
MS Spectrum of 3-(1-(3,4-dimethoxyphenyl)-3-phenylprop-2-yn-1-yl)-6-nitro-1H-indole 2d

MS Spectrum of 3-(1-(4-benzylxyloxy)phenyl)oct-2-yn-1-yl)-6-nitro-1H-indole 2e

MS Spectrum of 3-(1-(4-chlorophenyl)oct-2-yn-1-yl)-6-nitro-1H-indole 2f
MS Spectrum of 6-chloro-3-(1-(3,4-dimethylphenyl)-3-phenylprop-2-yn-1-yl)-1H-indole 2g

MS Spectrum of 3-(1-(4-(benzyloxy)phenyl)-3-phenylprop-2-yn-1-yl)-6-chloro-1H-indole 2h

MS Spectrum of 6-chloro-3-(1-(3,4-dimethoxyphenyl)-3-phenylprop-2-yn-1-yl)-1H-indole 2i
MS Spectrum of 4-(1-(3,4-dimethylphenyl)-3-phenylprop-2-yn-1-yl)phenol 2j

MS Spectrum of 4-(1-(4-benzoyloxyphenyl)-3-phenylprop-2-yn-1-yl)phenol 2k

MS Spectrum of 4-(1-(3,4-dimethoxyphenyl)-3-phenylprop-2-yn-1-yl)phenol 2l
MS Spectrum of 4-(1-(4-chlorophenyl)-3-phenylprop-2-yn-1-yl)phenol 2m

MS Spectrum of 4-(3-phenyl-1-(3-(trifluoromethyl)phenyl)prop-2-yn-1-yl)phenol 2n

MS Spectrum of 1-(benzylxy)-4-(1-(4-methoxyphenyl)-3-phenylprop-2-yn-1-yl)benzene 2o
MS Spectrum of 1,2-dimethoxy-4-(1-(4-methoxyphenyl)-3-phenylprop-2-yn-1-yl)benzene 2p

MS Spectrum of 1-(1-(4-methoxyphenyl)-3-phenylprop-2-yn-1-yl)-3-(trifluoromethyl)benzene 2q

MS Spectrum of 2-(1-(3,4-dimethylphenyl)-3-phenylprop-2-yn-1-yl)furan 2r
MS Spectrum of 2-(1-(3,4-dimethoxyphenyl)-3-phenylprop-2-yn-1-yl)furan 2s