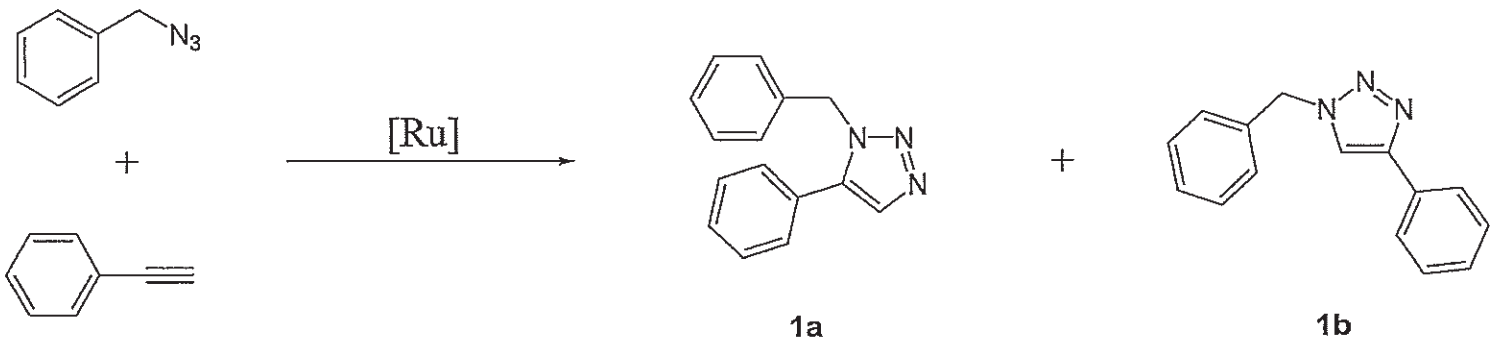


	1a	1b
$Ru(OAc)_2(PPh_3)_2$		100%
$CpRuCl(PPh_3)_2$	85%	15%
$Cp^*RuCl(PPh_3)_2$	100%	
$Cp^*RuCl(NBD)$	100%	

Figure 1

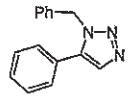
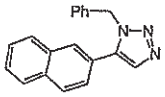
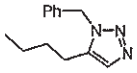
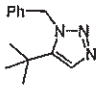
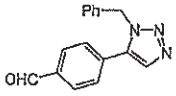
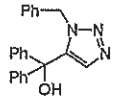
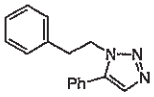
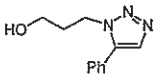
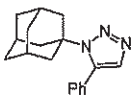
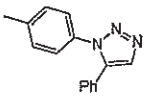
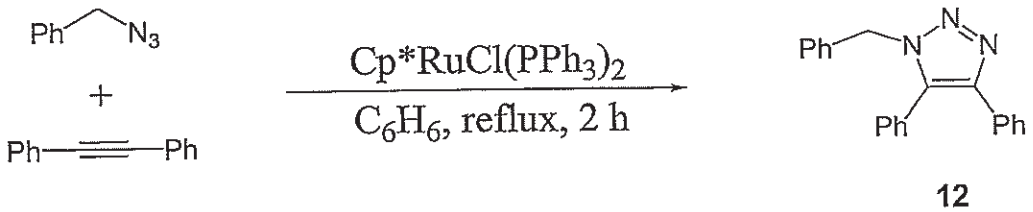
Entry	Product		Reaction time, n	yield, %
1		**1a**	2	80
2		**2a**	4	93
3		**3a**	3	82
4		**4a**	4	82
5		**5a**	2	81
6		**6a**	2.5	94
7		**7a**	4	87
8		**8a**	2 (THF, 60 °C)	89
9		**9a**	2 (THF, 60 °C)	82
10		**10a**	12 (THF, 60 °C)	54
11		**11a**	6 (THF, 60 °C)	32

Figure 2



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Figure 3

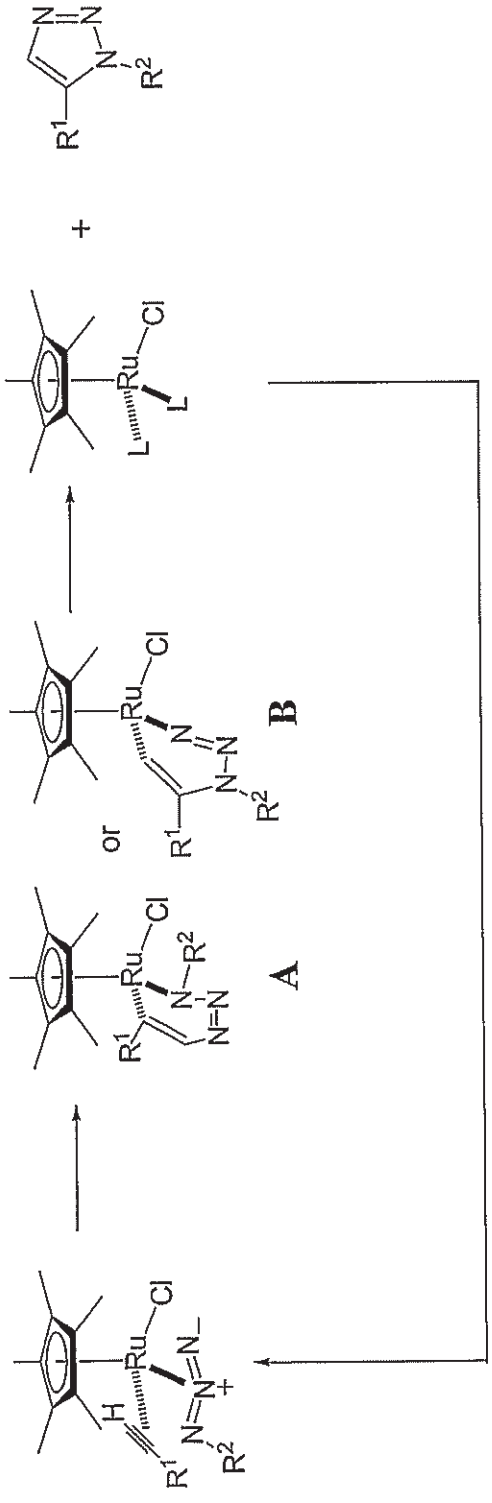


Figure 4

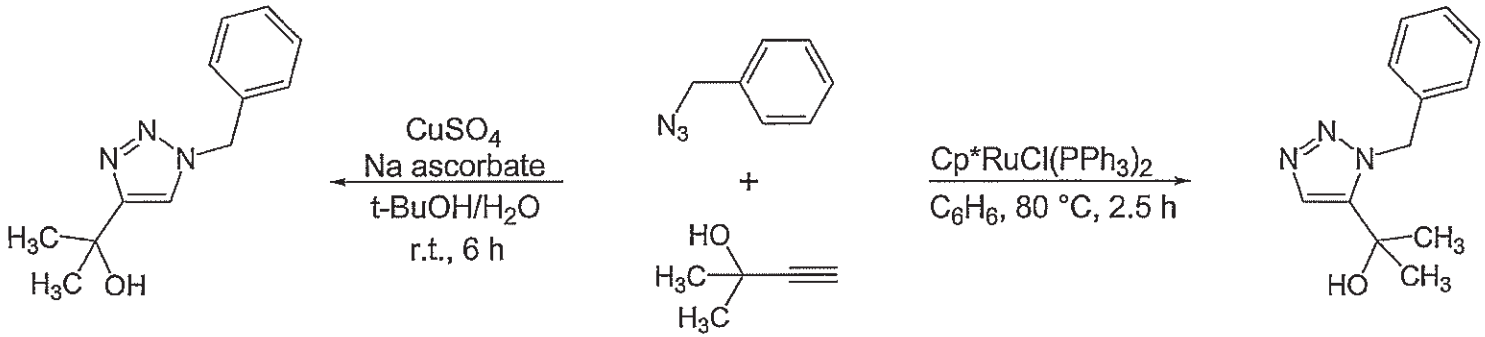

CuSO4
Na ascorbate
t-BuOH/H2O
r.t., 6 h
Cp*RuCl(PPh3)2
C6H6, 80 °C, 2.5 h
1,4-regioisomer, 92%
1,5-regioisomer, 94%

Figure 5