

(19)  
(12)

(KR)  
(A)

(51) Int. Cl.<sup>7</sup>  
C07D 215/14

(11)  
(43)

2003-0062614  
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(21) 10-2002-0002917  
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(72) 234-903

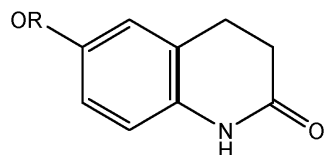
801-1308

(74)

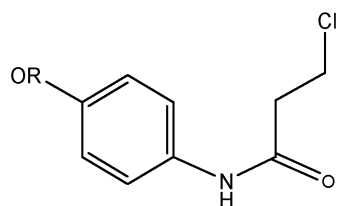
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(54)

(2) 3-  
(1)



1

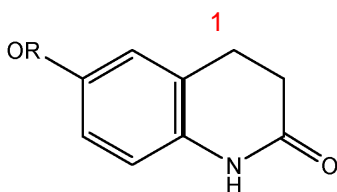


2

(1), (2) R H 1 3

, 3-

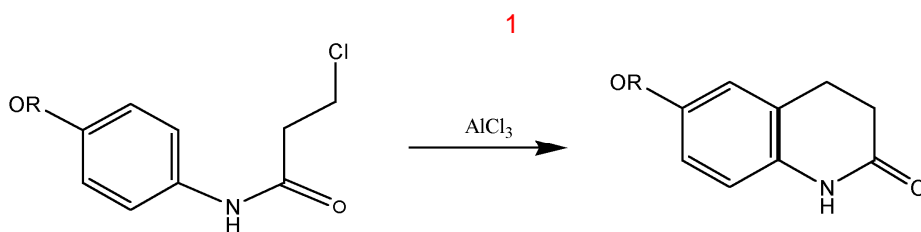
(1)



(1) R H 1 3

(Chem. Pharm. Bull 9, 970,(1961)).

(1)



2 1

(1), (2) R H 1 3

가

가

가

, 3-

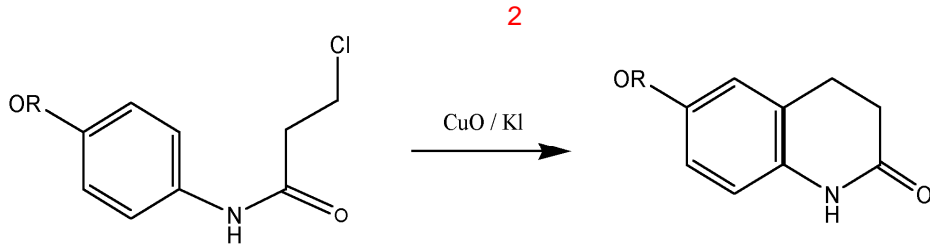
가

가

(2) 3-

(1)

(2)



2 1

(1), (2) R H 1 3

2

3- (2) 3-

0.1~ 2

0.1

2

가

3-

0.1~ 0.5

3-

0.1~ 2

200 300  
 , 2~ 5kg/cm<sup>2</sup>  
 300

1 5  
 가 300

1.7- -3,4-

3- -N-(3- ) 199 g(1 )

7.9 g(0.1 )  
 270

16.6 g  
 5

HPLC 가 95%

, 230  
 100 Mℓ

100 Mℓ

.80 6  
 90% LC

149 g

99.8%

<sup>1</sup>H-NMR (TFA, 400MHz, ppm) : 3.79 (2H,t), 3.95 (2H,t), 7.8 (3H,m)

2. 6- -3,4-

3- -N-(4- ) 213.67 g(1 ) 31.6 g(0.1 ) 16.6 g  
 , 150 , 230 10  
 HPLC 가 95% , 230 100 Mℓ 100 Mℓ  
 가  
 .80 6 157 g  
 89% , LC 99.4% .

3. 6- -3,4-

3- -N-(4- ) 199.7 g(1 ) 15.9 g(0.1 ) 16.6 g  
 , 150 , 270 15  
 HPLC 가 90% , 230 100 Mℓ 100 Mℓ  
 가  
 .80 6 139 g  
 85% , LC 99.9% .

1. 7- -3,4-

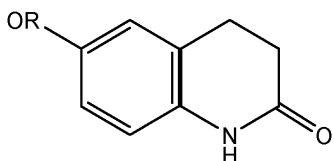
Chem. pharm. Bull 9, 970 (1961)

3- -3'- 40 g 201.5 g, 24 g, 24 g  
 , 160 1 , ,  
 . 25 g 78% .  
 10 g 30% .  
 , 30% ( 1)  
 , 99.8%  
 1, 2, 3 1 ,

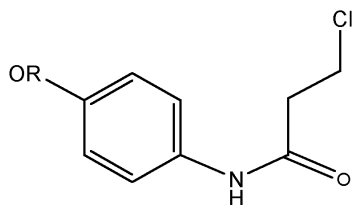
3- , , , , 가

(57)

1. (2) 3- (1)



1



2

(1), (2) R H 1 3 .

2.

1 , 가 , 2 .

3.

2 , 가 3- 0.1~ 2 .

4.

1 , 가 .

5.

4 , 3- 0.1~ 2 가 .