

SUPPORTING INFORMATION

In Situ Generation of Nitrilium from Nitrile Ylide and Subsequent Mumm Rearrangement: Copper-Catalyzed Synthesis of Unsymmetrical Diacylglycine Esters

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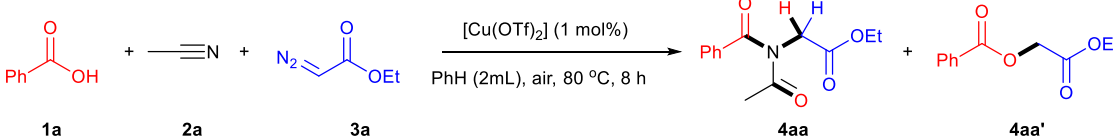
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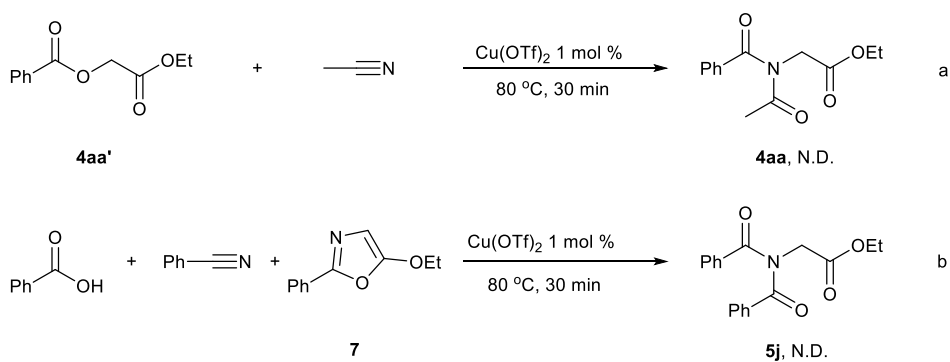
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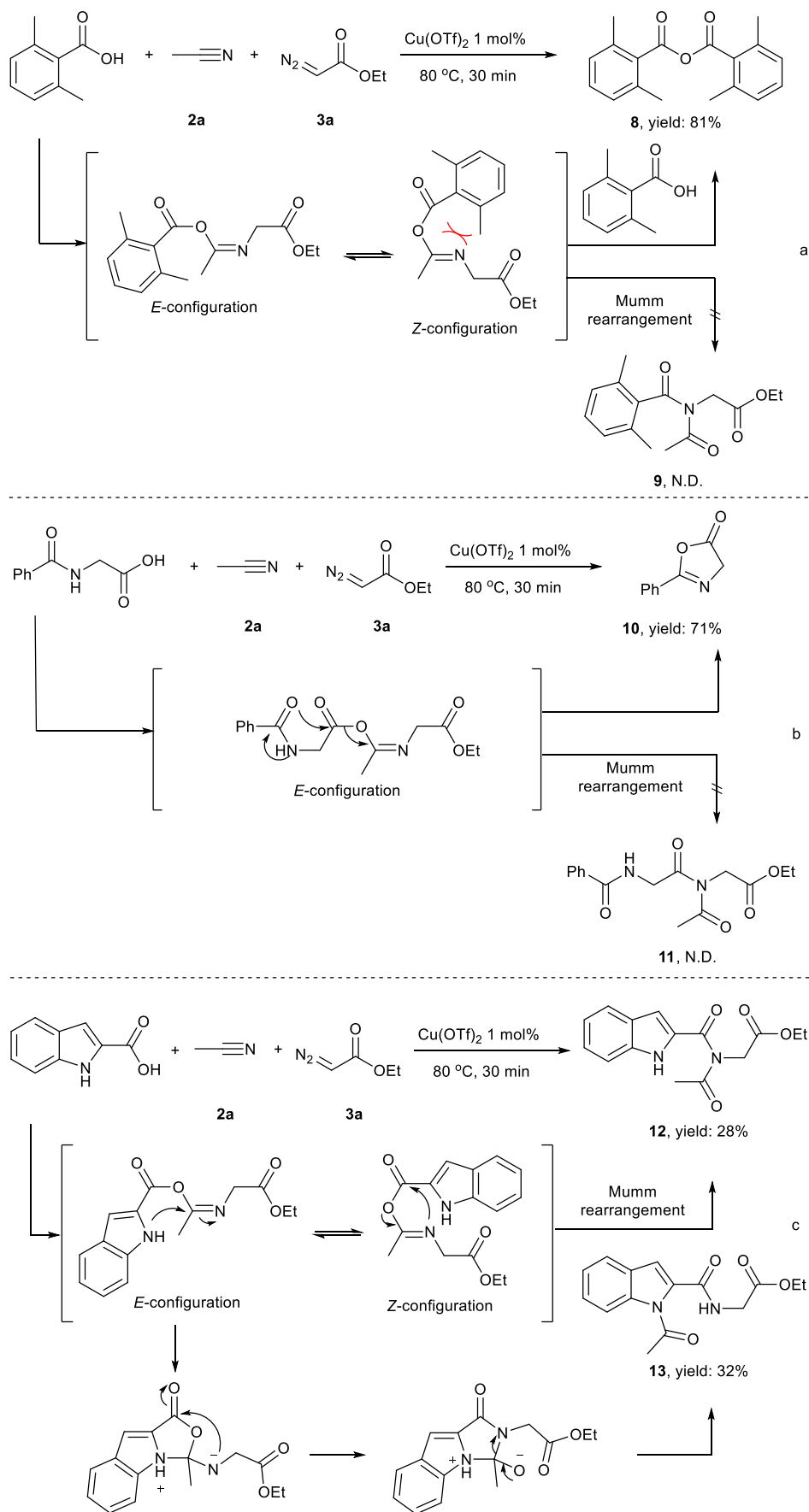
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Table S1 Selected observations from screening amount of acetonitrile^{a,b}

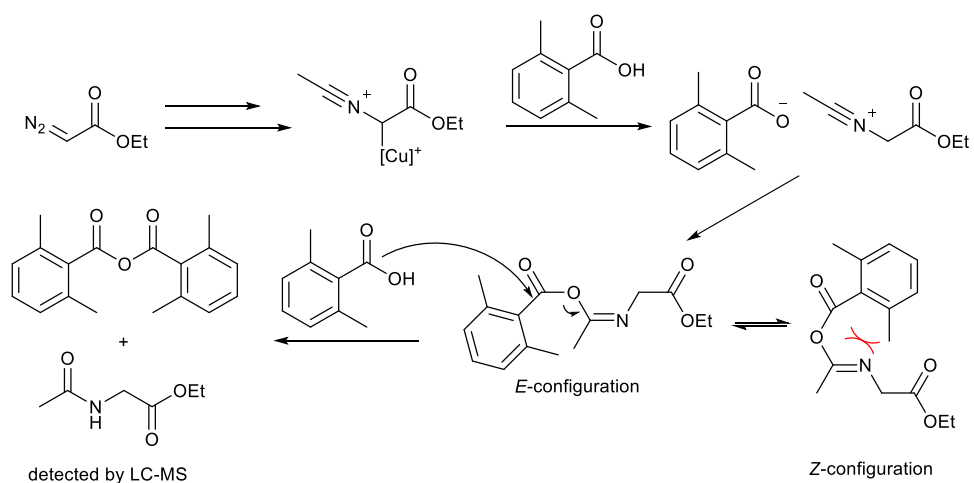
				
1a	2a	3a	4aa	4aa'
Entry	2a (equiv)		4aa (%)	4aa' (%)
1	4		2	97
2	6		6	94
3	8		8	91
4	10		11	89
5	15		13	85
6	20		38	60
7	30		67	25
8	40		85	13
9	50		94	6
10	100		98	< 2

^aConditions: **1a** (1 mmol), **2a**, **3a** (2 equiv), Cu(OTf)₂ (0.01 mmol), PhH (2 mL), under air, at 80 °C for 8 h. ^bYield of isolated product.

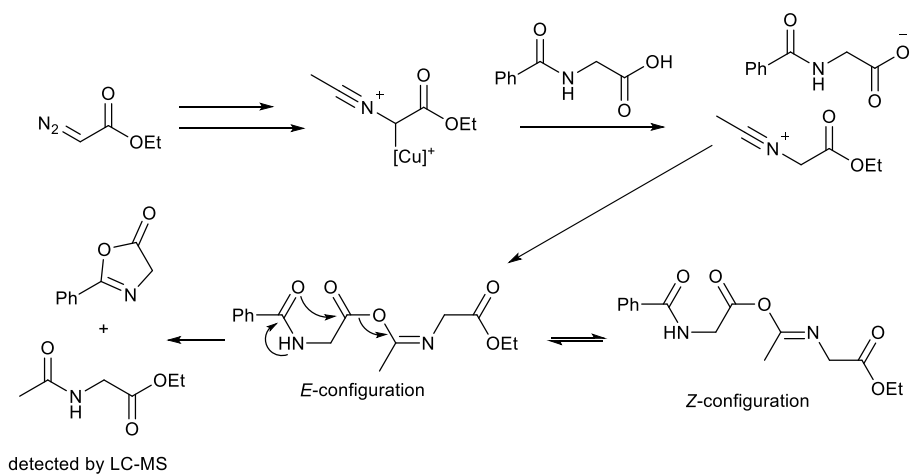
**Scheme S1** Control reactions.



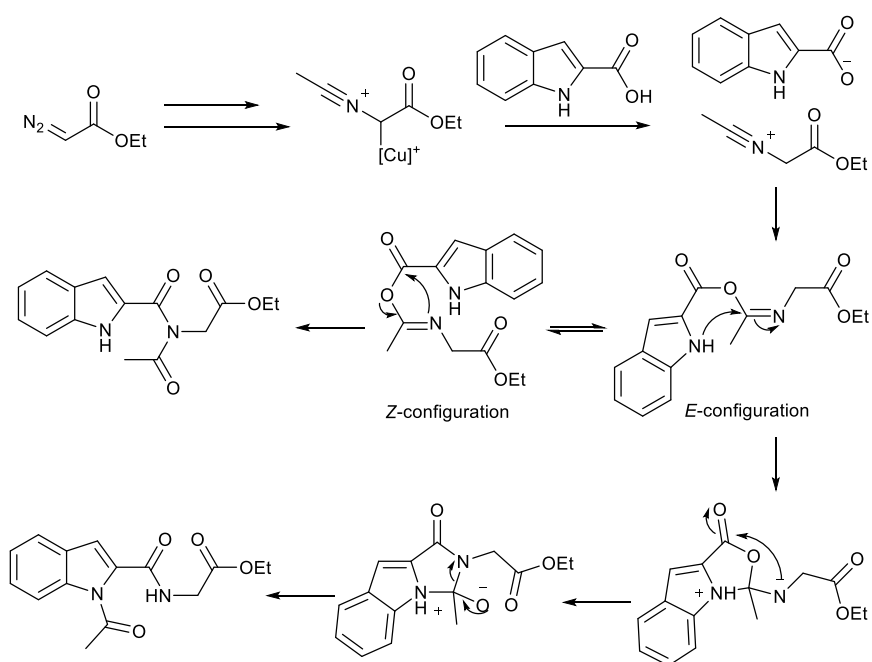
Scheme S2 Several unexpected results.



Scheme S3 A proposed mechanism for 2,6-dimethylbenzoic acid, acetonitrile **2a**, with ethyl diazoacetate **3a**.



Scheme S4 A proposed mechanism for benzoylglycine, acetonitrile **2a**, with ethyl diazoacetate **3a**.



Scheme S5 A proposed mechanism for 1H-indole-2-carboxylic acid, acetonitrile **2a**, with ethyl diazoacetate **3a**.

NMR Spectroscopic Data for Products

