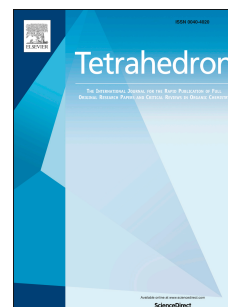


# Accepted Manuscript

Synthesis of 3-sulfonyl coumarins through radical sulfonylation with disulfides under catalyst-free conditions

Hexiang Ren, Ming Zhang, Ai Qin Zhang



PII: S0040-4020(18)30811-1

DOI: [10.1016/j.tet.2018.07.014](https://doi.org/10.1016/j.tet.2018.07.014)

Reference: TET 29674

To appear in: *Tetrahedron*

Received Date: 6 June 2018

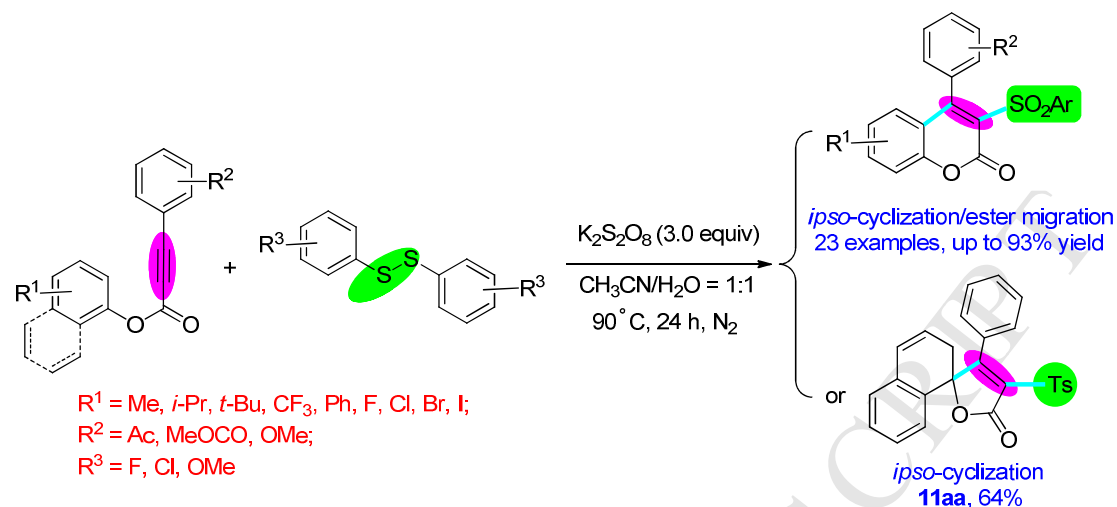
Revised Date: 3 July 2018

Accepted Date: 6 July 2018

Please cite this article as: Ren H, Zhang M, Zhang AQ, Synthesis of 3-sulfonyl coumarins through radical sulfonylation with disulfides under catalyst-free conditions, *Tetrahedron* (2018), doi: 10.1016/j.tet.2018.07.014.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Graphical Abstract



## Synthesis of 3-sulfonyl coumarins through radical sulfonylation with disulfides under catalyst-free conditions

Hexiang Ren<sup>a</sup>, Ming Zhang<sup>a,\*</sup>, Ai Qin Zhang<sup>b</sup>

<sup>a</sup>College of Chemistry and Chemical Engineering and Key Laboratory of Functional Small

Organic Molecule, Ministry of Education, Jiangxi Normal University (Yaohu campus), 99

Ziyangdadao Avenue, Nanchang, Jiangxi 330022, China.

\*Corresponding Author: E-mail: zmchem@jxnu.edu.cn; zmchem@163.com.

<sup>b</sup>Department of Environmental and Chemical Engineering, Nanchang Hangkong University,

Nanchang, Jiangxi, 330063, China.

**ABSTRACT:** An efficient and convenient aryl sulfonyl introducing strategy for the synthesis of 3-sulfonyl coumarins via *ipso*-cyclization/1,2-ester migration from substituted phenyl 3-phenylpropiolates with disulfides and potassium persulfate as sulfonylating reagents was developed, halogen and many other electron-withdrawing or -donating functional groups are tolerated. When naphthalen-1-yl 3-phenylpropiolate was used as a starting material, a spiro

Download English Version:

<https://daneshyari.com/en/article/7826643>

Download Persian Version:

<https://daneshyari.com/article/7826643>

[Daneshyari.com](https://daneshyari.com)