ORGANIC CHEMISTRY







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CORRECTION

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Cite this: Org. Chem. Front., 2023, **10**, 1592

Correction: Electrochemical tandem cyclization to access sulfonylated fused sultams via SO2 insertion with sodium metabisulfite

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DOI: 10.1039/d3qo90021e rsc.li/frontiers-organic

Correction for 'Electrochemical tandem cyclization to access sulfonylated fused sultams via SO2 insertion with sodium metabisulfite' by Yun-Hai Sun et al., Org. Chem. Front., 2023, 10, 705-711, https://doi.org/ 10.1039/D2QQ01821G

The authors regret that the proposed mechanism of anodic oxidation of Na₂S₂O₅ generating a sulfur dioxide radical cation was incorrect in Scheme 7 of the original article. In this work, the cyclic voltammetry (CV) experiments indicated that the solution of Na₂S₂O₅ in CH₃CN/H₂O displayed an obvious oxidative peak at 1.46 V (1.31 V in the presence of MsOH) (Fig. 1), while the mixture of Na₂S₂O₅ and 2a displayed an obvious oxidative peak at 1.48 V under acidic conditions. Although the mechanism is vague at present, it is likely that the anodic oxidation of SO₂, which is generated from inorganic sulfite (Na₂S₂O₅), may generate a sulfur dioxide radical cation instead of directly removing one electron from the dianion S₂O₅, and the sulfur dioxide radical cation could subsequently oxidize 2a to produce the corresponding arylsulfonyl radical as an alternative possible way. We are sorry that this led to some misunderstandings. The revised Scheme 7 is presented below in this correction notice, in which the anodic oxidation of Na₂S₂O₅ generating a sulfur dioxide radical cation was removed.

Anode

TsNHNH₂ Ts

(2a)

Tan Ha

$$CN$$
 Ph
 NH
 Ts
 SO_2
 NH
 Ts
 SO_2
 NH
 Ts
 SO_2
 SO_2

Scheme 7 Proposed mechanism.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

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