Increasing the π -Electron Conjugation of Corroles *via* Sonogashira-cross-coupling

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The synthesis of *meso*-substituted A_2B and A_3 -corroles with small aromatic side chains is standard today. In contrast to this, synthesis of *meso*-functionalized alkynylcorroles is not state of the art. We report the chemical synthesis and characterization of several A_2B and A_3 -Corroles bearing TIPS-protected ethynyl-groups at the *meso*-positions, which serve as precursors for further reactions to enhance the π -electron conjugation. *Via* Sonogashira-cross-coupling the reaction of several aryliodides with the corroles was accomplished under ambient conditions and a common catalyst system within several hours.

Figure 1: A₂B (**a, b**) and A₃-Corroles (**c**) bearing TIPS-protected ethynyl-groups at the meso-positions.

 $^{[1] \} Haas,\ M.,\ Gonglach,\ S.,\ M\"{u}llegger,\ S.\ et\ al.\ Monatsh\ Chem\ (2017).\ https://doi.org/10.1007/s00706-017-2114-6$