

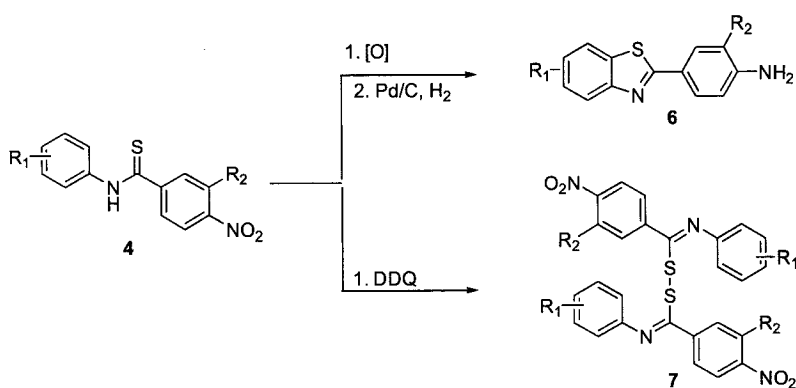
Synthesis, and Biological Evaluation of 2-Phenyl-benzothiazoles and Bis(benzylidene-benzenamine)-1-disulfides as Anticancer Agents

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Photodynamic therapy (PDT) employing exogenous photosensitizers is currently being approved for treatment of non-melanoma skin cancers such as basal cell carcinoma (BCC) and Bowen's disease. 2-phenyl-benzothiazoles (**6**), a group of chromophoric structure, absorb light in the UVA (315-400 nm) whereupon it becomes phototoxic through the production of reactive oxygen species (ROS). In this presentation, we report a synthesis of **6** from phenylthiobenzamides (**4**) mediated by oxidative reagents.^{1,2} While reaction of **4** with DDQ formed bis[benzylidene-benzenamine]-1-disulfides (**7**) in high yields. The biological activities of compound **6** and **7** will also be reported.³



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