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(54) Title: LIGHT-UP PROBES BASED ON FLUOROGENS WITH AGGREGATION INDUCED EMISSION CHARACTERISTICS FOR CELLULAR IMAGING AND DRUG SCREENING

(57) Abstract: The present invention is drawn toward luminogens and chemical compositions comprising a target recognition motif, a hydrophilic moiety, a linking moiety, and at least one luminogen. Additionally presented are methods of: assessing the conversion of a prodrug into its active form, assessing the therapeutic efficacy of a prodrug, detecting glutathione in a biological sample, detecting alkaline phosphatase in a sample, and conducting fluorescence imaging or magnetic resonance imaging with the use of luminogen-containing compositions.



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