A single benzene fluorescent probe for efficient formaldehyde sensing in living cells using glutathione as an amplifier

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Introduction

20 million tons/year formaldehyde production

Exogenous Sources

Endogenous Sources

Existing Strategies

Screening of the amine molecules

Selectivity of DAB

Results and Discussions

FA sensing by using DAB and M-DAB

Effect of pH

Effect of GSH

Cytotoxicity of DAB

Conclusions

DAB = Single benzene probe

DAB = M-DAB

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