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Title: The effect of disulfide bond introduction and related Cys/Ser mutations on the stability of cyclohexanone monooxygenase

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1 Highlights

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3 • Application of an efficient and easy method for the introduction of additional  
4 disulfide bonds without the need of a crystal structure

5 • CHMO variants created with higher thermal as well as oxidative stability  
6 without any loss of catalytic activity

7 • Additional creation and analysis of single Cys/Ser mutants

8 • Major improvement of the enzyme half-life by only one exceptional cysteine  
9 mutation

10 • ABD-F labeling as fast assay to verify the correct formation of disulfide bonds

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12 **The effect of disulfide bond introduction and related Cys/Ser**  
13 **mutations on the stability of cyclohexanone monooxygenase**

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