

论著

恶性疟原虫融合蛋白PfCP-2.9自由巯基的测定

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摘要

目的 检测由毕氏酵母表达的恶性疟原虫融合蛋白(Plasmodiumfalciparumchimericprotein) PfCP-2.9的自由巯基。方法使用反向高压液相层析和Ellman氏反应进行检测。用反向高压液相,检测了3种样本,PfCP-2.9、PfCP-2.9经二硫苏糖醇还原、PfCP-2.9经吡啶乙酸烷基化。结果两种检测方法均表明PfCP-2.9不含任何自由巯基。结论由毕氏酵母表达的PfCP-2.9中的半胱氨酸残基所含有的巯基均已氧化形成二硫键。

关键词 [恶性疟原虫](#) [融合蛋白](#) [反向高压液相](#) [Ellman氏反应](#) [自由巯基](#)

分类号

Determination of Free Thiols in the Chimeric Protein PfCP-2.9 of Plasmodium faldparum

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Abstract

Objective To determine the free thiols in the chimeric protein PfCP-2. 9 of Plasmodium falciparum expressed by Pichia pastoris. Methods Two experiments of reverse phase HPLC and Ellman' s reaction were applied to the PfCP-2.9 for the determination of its free thiols. For RP-HPLC analysis, three kinds of samples were tested: PfCP-2. 9, dithiothreitol-reduced PfCP-2.9 and indoacetic acid-alkylated PfCP-2.9. Results Both experiments showed that there were no any free thiols present in the PfCP-2. 9. Conclusion The disulfide bonds between cysteine residues of PfCP-2. 9 were formed completely.

Key words [Plasmodium falciparum](#) [chimeric protein](#) [reverse phase HPLC](#) [Ellman' reaction](#) [free thiol](#)

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