

论文

弹性蛋白酶化学修饰的研究

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摘要:

本文用溴化氰活化的右旋糖酐对弹性蛋白酶进行共价修饰,以改变其若干性质,使之更有利于应用。结果表明,修饰酶不仅完全保留了天然酶的活性,而且在耐热性、耐酸性、抗胃蛋白酶水解能力上,都明显地优于天然酶。修饰酶较天然酶稳定,有较高的应用价值。

关键词: 弹性蛋白酶 右旋糖酐 化学修饰 稳定性

STUDY ON CONJUGATE MODIFICATION OF ELASTASE

WANG Shu-Qi and CHENG Yu-Hua

Abstract:

Some properties of the dextran activated with bromine cyanide modified elastase were studied and compared, with those of natural elastase. Results showed that the enzymatic activity of elastase retained 94.6% of its original enzymatic activity after covalent modification with activated dextran. Modified elastase exhibited the same ability to resist hydrolysis by trypsin as the natural elastase. But its ability to resist hydrolysis by pepsin and denaturation by heat and acid was found to be higher than that of the natural elastase. These results suggest that the modified elastase may have greater merit in clinical applications than natural elastase.

Keywords: Dextran, Modification Stability Elastase

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