遗传 2003 25 (2): 232-236 ISSN: 0379-4172 CN: 11-5450/R

奇异果甜蛋白及其基因工程 Sweet Protein Thaumatin and It's Genetic Engineering

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收稿日期 修回日期 网络版发布日期 接受日期

摘要 奇异果甜蛋白(thaumatin)是迄今为止最甜的物质之一，对其研究具有很重要的意义。奇异果甜蛋白的生化性质基本清楚，基因序列和氨基酸序列都已测定。它的甜味可能是由奇异果甜蛋白上特定基团和受体结合引起的。对奇异果甜蛋白的生理功能知之甚少。近二十年来，在奇异果甜蛋白的基因工程上取得了一定进展，但仍然存在许多困难。

Abstract:Thaumatin is one of the sweetest substances known to date,it is important to study the thaumatin. The biochemical properties of thaumatin have been clarified clearly. Thaumatin had been isolated and sequenced. The mechanism of the sweetness of thaumatin may be due to the combination of some special groups and the receptors. The exact function of thaumatin is still not clear. Although gene engineering of thaumatin has been carried out for 20 years, there are still some difficulties to be solved for using in the market.

关键词 甜味蛋白 奇异果甜蛋白 甜味机理 生理功能 基因工程 Key words sweet-tasting protein thaumatin mechanism of sweetness physiological function genetic engineering

分类号

Abstract

Key words

DOI:

通讯作者