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摘要: 苯丙氨酸解氨酶(phenylalanine ammonia-lyase, PAL)是连接植物初级代谢和苯丙烷类代谢等次级代谢途径关键酶、限速酶。综述了大豆PAL及其基因的研究进展,主要包括大豆PAL的分布及活性、分离纯化及酶活性的测定、对植物生理代谢的意义、在抗病中的作用机制、基因克隆、表达特性、基因的应用展望等。

Abstract: Phenylalanine ammonia-lyase(PAL)was the key enzyme and rate-limiting enzyme that linked primary metabolism to phenylpropanoid metabolism.The review summarized the research advances of studies on soybean phenylalanine ammonia-lyase and its gene, including the distribution and enzyme activity, method of purification and enzyme assay, function in physiological metabolism and disease-resistance; gene expression characteristics, gene cloning and application prospect.

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