

综述

## 多肽/蛋白类药物在微球中的不稳定因素及解决方法

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**摘要** 多肽/蛋白类药物在人类疾病治疗过程中起着越来越重要的作用, 但通常该类药物半衰期短, 需频繁注射给药, 患者顺应性低, 因此多肽/蛋白类药物的缓控释制剂尤其是生物可降解微球引起了广泛关注, 但该类药物较不稳定, 其在提取分析、微球的制备、储存及释放过程中均易失活。本文主要针对微球中多肽/蛋白类药物不稳定的因素及解决方法加以综述。

**关键词** [多肽](#) [蛋白](#) [微球](#) [稳定剂](#)

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## Factors affecting the stability of polypeptides/proteins in microspheres and methods for resolution

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### Abstract

Polypeptides/proteins play important roles in the therapy of human diseases, however, their half-lives are very short, which make it necessary to be injected frequently. As the result, the compliance of patients is often very low. Therefore, more and more attention is paid to the controlled/sustained release preparations of polypeptide/protein drugs. But these drugs are apt to denature during the extraction, analysis, and preparation, storage or release of microspheres, so in this review, the unstable factors of polypeptides/proteins in microspheres and methods for resolution are discussed.

**Key words** [polypeptides](#) [proteins](#) [microspheres](#) [stabilizer](#)

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