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小肽转运载体2的转运机制及功能研究

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Transport Mechanisms and Functions of Peptide Transporter 2

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摘要 小肽转运载体2(peptide transporter 2, PepT2)是一种高亲和力、低容量的转运蛋白,能转运大多数小肽类营养物质和仿肽类药物,因此,对PepT2进行深入研究对动物营养学和医学临床治疗均具有重要意义。本文综述了PepT2的功能结构、转运机制及其底物结合特性,阐述了其在不同组织中的功能及活性调节,并对其今后的研究方向进行了展望。

关键词: PepT2 转运机制 功能

Abstract: Peptide transporter 2 (PepT2) is a high-affinity and low-capacity transporter which can transport majority of small peptides and peptidomimetic drugs. Therefore, intensive research in PepT2 is significant for animal nutrition and clinical therapy. This paper reviewed function structure, transport mechanisms as well as the substrate characteristics of PepT2, and described its functions and activity regulations in different tissues. The future prospects for PepT2 were also discussed.

Keywords: PepT2, transport mechanism, function

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