

综述

热休克蛋白22研究进展

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摘要

A newly identified 22 kD protein, which is named as heat shock protein22 (HSP22), is a member of sHSP (small heat shock protein) subfamily. It contains the α -crystallin domain in its C-terminal half, a hallmark of the subfamily of sHSP. HSP22 has Ser-Thr protein kinase activity and chaperone-like activity. HSP22 is expressed in multiple tissues, specially in skeletal muscle, placenta and heart. Previous studies showed that HSP22 involved in growth and transformation of cells, apoptosis of tumor, hypertrophy and apoptosis of myocardial cells.

关键词 [热休克蛋白22 \(HSP22\)](#) 属于小热休克蛋白 (sHSP) 亚家族成员,它与sHSP家族C-末端的 α -晶体蛋白有同源性,分子量为22 kD。HSP22具有丝/苏氨酸激酶活性,广泛分布于哺乳动物的各种组织中,如肌肉、心肌、胎盘等。初步的研究发现HSP22在肿瘤细胞凋亡、心肌细胞肥大和凋亡中可能发挥着一定的作用,同时它还具有促进细胞生长和转化及分子伴侣的作用。

分类号

Research progress on heat shock protein 22

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Abstract

A newly identified 22 kD protein, which is named as heat shock protein22 (HSP22), is a member of sHSP (small heat shock protein) subfamily. It contains the α -crystallin domain in its C-terminal half, a hallmark of the subfamily of sHSP. HSP22 has Ser-Thr protein kinase activity and chaperone-like activity. HSP22 is expressed in multiple tissues, specially in skeletal muscle, placenta and heart. Previous studies showed that HSP22 involved in growth and transformation of cells, apoptosis of tumor, hypertrophy and apoptosis of myocardial cells.

Key words [heat shock protein 22](#) [small heat shock protein](#) [biological effect](#)

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▶ 本刊中 包含“热休克蛋白22 (HSP22) 属于小热休克蛋白 (sHSP) 亚家族成员,它与sHSP家族C-末端的α-晶体蛋白有同源性,分子量为22 kD。HSP22具有丝/苏氨酸激酶活性,广泛分布于哺乳动物的各种组织中,如肌肉、心肌、胎盘等。初步的研究发现HSP22在肿瘤细胞凋亡、心肌细胞肥大和凋亡中可能发挥着一定的作用,同时它还具有促进细胞生长和转化及分子伴侣的作用。” 的相关文章
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