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Title (English)

Expression and purification trials of LRR-domains from Slit2

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Abstract

In order to develop therapeutic methods for restoration of lost nervous function, information on the various components and mechanisms in the highly complex human nervous system are required. This study treats a specific chemorepellant protein Slit2, which provides guidance cues for outgrowing axons, and specifically the N-terminal part that consists of four Leucine Rich Repeat (LRR) domains. Both baculoviral and bacterial expression systems were tried in attempts to achieve each LRR domain as soluble protein. Expressed protein could be identified when using both systems. However, the small amounts from insect cell expression made the purification process difficult and inclusion bodies from prokaryotic expression had the same result.

Keywords

Slit, LRR domains, axon guidance, repellent signalling

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