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M-Phase Promoting Factor

National Cancer Institute

Source

National Cancer Institute. <u>M-Phase Promoting Factor</u>. NCI Thesaurus. Code C28557.

M Phase-Promoting Factor is a protein kinase complex that drives both the mitotic and meiotic cycles in all eukaryotic organisms. In meiosis it induces immature oocytes to undergo meiotic maturation. In mitosis it has a role in the G2/M phase transition. Once activated by CYCLINS; MPF directly phosphorylates some of the proteins involved in nuclear envelope breakdown, chromosome condensation, spindle assembly, and the degradation of cyclins. The catalytic subunit of MPF is PROTEIN P34CDC2.

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