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Swh3p

National Cancer Institute

Source

National Cancer Institute. *Swh3p*. NCI Thesaurus. Code C19854.

A subunit of unknown function in the fifteen-protein RSC nucleosome/chromatin remodeling complex, Rsc8/Swh3 is a homolog of the SWI/SNF protein SWI3. Swi3/BAF155 contains a leucine zipper motif typical of many transcription factors. Swh3p undergoes dimerization via the coiled-coil C-terminus, forms a complex with RSC6p, interacts with the SWI2/SNF2 ATPase Sth1p, and appears to mediate multiple RSC interactions. SWI/SNF and RSC share conserved components. SWI/SNF proteins display helicase and ATPase activities and appear to regulate gene transcription by altering local chromatin structure. RSC complex is required for transcriptional regulation and nucleosome positioning. RSC maintains a repressive chromatin structure at certain inducible promoters. (from SGD; NAR 26:3739, 1998; EMBO J. 18:2836, 1999; and NCI)