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FOS Oncoprotein

National Cancer Institute

Source

National Cancer Institute. *FOS Oncoprotein*. NCI Thesaurus. Code C17439.

c-FOS protein is a transcription factor critical in regulating the development of the skeleton. c-FOS protein is a major component of the DNA-binding AP-1 transcription complex, which also includes members of the JUN family. Each protein contains a bZIP domain and a leucine zipper domain. FOS oncoproteins derive from mutated FOS genes. These proteins have been found in the Finkel-Biskis-Jenkins (FBJ-MSV) and Finkel-Biskis-Reilly (FBR-MSV) murine sarcoma viruses, which induce osteogenic sarcomas in mice. The FBJ-MSV v-fos gene encodes a 55 kD protein and the FBR-MSV v-fos gene encodes a 75 kD fusion protein. (from OMIM 164810 and NCI)