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SMAC Mimetic BI 891065

National Cancer Institute

Source

National Cancer Institute. *SMAC Mimetic BI 891065*. NCI Thesaurus. Code C150507.

A mimetic of second mitochondrial-derived activator of caspases (Smac/DIABLO) and inhibitor of IAPs (Inhibitor of Apoptosis Proteins), with potential antineoplastic activity. Upon administration, Smac mimetic BI 891065 targets and binds to the Smac binding groove on IAPs, including the caspase inhibitor X chromosome-linked IAP (XIAP) and the cellular IAPs 1 and 2. This inhibits the activities of these IAPs and promotes the induction of apoptosis through apoptotic signaling pathways. IAPs are overexpressed by many cancer cell types and suppress apoptosis by binding to and inhibiting certain caspases.