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# Plitidepsin

National Cancer Institute

## Source

National Cancer Institute. *Plitidepsin*. NCI Thesaurus. Code C1689.

A cyclic depsipeptide isolated from the marine tunicate *Aplidium albicans*. Plitidepsin displays a broad spectrum of antitumor activities, inducing apoptosis by triggering mitochondrial cytochrome c release, initiating the Fas/DC95, JNK pathway and activating caspase 3 activation. This agent also inhibits elongation factor 1-a, thereby interfering with protein synthesis, and induces G1 arrest and G2 blockade, thereby inhibiting tumor cell growth.