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Shark Cartilage Extract AE-941

National Cancer Institute

Source

National Cancer Institute. *Shark Cartilage Extract AE-941*. NCI Thesaurus. Code C1798.

A multifunctional antiangiogenic agent derived from shark cartilage with potential antineoplastic activity. Shark cartilage extract AE-941 competitively inhibits the binding of pro-angiogenic vascular endothelial growth factor (VEGF) to its cellular receptor, thereby inhibiting endothelial cell proliferation. This agent also inhibits matrix metalloproteinases (MMPs), stimulates tissue plasminogen activator (tPA), and activates caspase-mediated apoptotic pathways in endothelial cells.