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Triptolide Analog

National Cancer Institute

Source

National Cancer Institute. *Triptolide Analog*. NCI Thesaurus. Code C111762.

A water soluble analog of the diterpenoid triepoxide triptolide isolated from the Chinese herb *Tripterygium wilfordii* Hook.f., with potential antineoplastic activity. Upon intravenous administration, the triptolide analog inhibits heat shock protein 70 (HSP70) and prevents HSP70-mediated inhibition of apoptosis. This leads to both the induction of apoptosis and a reduction of cancer cell growth. HSP70, a molecular chaperone upregulated in various cancer cells, plays a key role in the inhibition of caspase-dependent and -independent apoptosis.