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Ranpirnase

National Cancer Institute

Source

National Cancer Institute. *Ranpirnase*. NCI Thesaurus. Code C1183.

A natural homologue of ribonuclease A isolated from the eggs of the frog *Rana pipiens*. Ranpirnase primarily degrades cellular transfer RNA with a substrate specificity for uridine-guanidine base-pair sequences, resulting in inhibition of protein synthesis and cytotoxicity. This agent also activates caspase-9 in mitochondria, resulting in tumor cell apoptosis. (NCI04)