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# Tocotrienol-rich Fraction

National Cancer Institute

## Source

National Cancer Institute. *Tocotrienol-rich Fraction*. NCI Thesaurus. Code C101518.

An orally available nutritional supplement containing high amounts of the vitamin E family member tocotrienol with antioxidant, hypolipidemic and potential immunomodulating and antiproliferative activity. Upon oral administration, tocotrienol-rich fraction (TRF) accumulates in tumor cells and induces cell cycle arrest, programmed cell death, and inhibits tumor cell proliferation. In addition, this agent suppresses 3-hydroxy-3-methylglutaryl coenzyme A (HMG CoA) reductase activity and inhibits angiogenesis. Rice bran oil, palm oil and annatto seed oil are common sources of TRF.