

Product Name:	Griseofulvin
Product Number:	G008
CAS Number:	126-07-8
Molecular Formula:	C ₁₇ H ₁₇ ClO ₆
Molecular Weight:	352.77
Form:	Powder
Appearance:	White powder
Source:	Penicillium griseofulvum
Melting Point:	217-224 °C
Storage Conditions:	-20°C
Description:	Griseofulvin is a natural antifungal discovered in 1939 from <i>Penicillium griseofulvum</i> . It is fungistatic against species causing ringworm (<i>Microsporum</i> , <i>Epidermophyton</i> , and <i>Trichophyton</i>). It can bind to tubulin and interfere with mitosis. It can induce apoptosis in human tumor cell lines, showing promise as an anti-cancer agent. Griseofulvin is insoluble in water.
Mechanism of Action:	The mechanism of action of Griseofulvin is not well described, but is currently thought to bind to tubulin and interfere with mitosis. In addition, Griseofulvin is thought to inhibit synthesis of nucleic acids. It is able to induce apoptosis in human tumor cell lines.
Spectrum:	Griseofulvin targets fungi, specifically those species causing ringworm (<i>Microsporum</i> , <i>Epidermophyton</i> , and <i>Trichophyton</i>).
References:	<p>Panda D, Rathinasamy K, Santra MK, and Wilson L (2005) Kinetic suppression of microtubule dynamic instability by griseofulvin: Implications for its possible use in the treatment of cancer. Proc Natl. Acad. Sci USA 102(28):9878-9883 PMID 15985553</p> <p>Rice, LB and Mahmoud A. Ghannoum MA (1999) Antifungal agents: Mode of action, mechanisms of resistance, and correlation of these mechanisms with bacterial resistance. Clin. Microbiol. Rev. 501-517</p>